



Virtual University

About Us

CS201
Solved Final Terms Papers

Waqar.siddhu@gmail.com

Year
2017

For More Plz Visit

WWW.VirtualAcademyLive.com

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

In the Name of Allāh, the Most Gracious, the Most Merciful

Paper Pattern

MCQS 40 each 1 mark
Short 4 each 2 marks
Short 4 each 3 marks
long 4 each 5 marks

Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

In Flow Chart, flow of control is represented by _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Rectangle

☐ Circle

☐ Diamond

☐ Arrow

correct

Made by: Waqar Siddhu

Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

In Flow Chart, flow of control is represented by _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Rectangle

☐ Circle

☐ Diamond

☐ Arrow

Made by: Waqar Siddhu

Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

The operators ++ and -- are used to increment or decrement the value of a variable by _____

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

3

☐

2

☐

1

☐

correct

4

☐

Made by: Waqar Siddhu

Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

To assign a value to a character type variable, _____ are used around the value.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

parenthesis ()

☐

single quotes ' '

☐

correct

double quotes " "

☐

curly braces { }

☐

Made by: Waqar Siddhu

Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following syntax will be used to initialize an array of size 5 of int data type to value 0?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

arr[5] = (0) ;

☐

int arr[5]= 0 ;

☐

int arr[5] = (0) ;

☐

correct

int arr[] = 0 ;

☐

Made by: Waqar Siddhu

Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

Let ptr1 and ptr2 are pointer variables that points to integer data types then which one of the following arithmetic is allowed?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ ptr1 + ptr2

☐ ptr1 - ptr2

correct

☐ ptr1 * ptr2

☐ ptr1 / ptr2

Made by: Waqar Siddhu

Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

When an argument is passed by reference, _____

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ the function cannot access the argument's value.

☐ a variable is created in the function to hold the argument's value.

☐ a temporary variable is created in the calling program to hold the argument's value.

☐ the function accesses the argument's original value in the calling program.

Made by: Waqar Siddhu

Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

In year _____, C was approved as a standard language worldwide.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ 1988

☐ 1967

☐ 1989

correct

☐ 1986

Made by: Waqar Siddhu

Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

The C language was developed in late 60's and early 70's, in _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Richards Laboratories

☐ Microsot Laboratories

☐ Bell Laboratories

☐ IBM Laboratories

correct

Made by: Waqar Siddhu

Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

If a friend function outside the class declares itself friend of the class, this may violate the concept of _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Encapsulation and data accessing

☐ Encapsulation and data hiding

☐ Friend member functions of the class

☐ Interface of the class

correct

Made by: Waqar Siddhu

Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

A structure brings together a group of _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ same data type

☐ different data types

☐ constants

☐ both a, b

correct

Made by: Waqar Siddhu

Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

The member functions of a class occupy _____ region in memory for _____ object(s) of class.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ separate, each

☐ common, all

correct

☐ different, each

☐ different, all

Made by: Waqar Siddhu

Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

The static data members of a class are initialized _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ at file scope

☐ within class definition

correct

☐ within member function

☐ within main function

Made by: Waqar Siddhu

Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

The static data members of a class can be accessed by _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ only class

☐ only objects

☐ both class and objects

correct

☐ function out side the class

Made by: Waqar Siddhu

Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

Static variable which is defined in a function is initialized _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

- ☐ Every time the function call
- ☐ Only once during its life time
- ☐ For many times in the program
- ☐ Compile time of the program

correct

Made by: Waqar Siddhu

Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

When a variable is defined as static in a class then _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

- ☐ Separate copy of this variable is created for each object
- ☐ Only one copy is created for all objects of this class
- ☐ A copy of this variable is created for only static objects
- ☐ No copy is created for the objects of that class

correct

Made by: Waqar Siddhu

Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

When a call to a user-defined function finishes, the variable defined inside the function will _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

- ☐ still in existence
- ☐ not exist further
- ☐ finish but a copy will remain in memory
- ☐ become static for other functions

correct

Made by: Waqar Siddhu

Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

What does STL stand for?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Source template library

☐ Standard template library

correct

☐ Stream template library

☐ Standard temporary library

Made by: Waqar Siddhu

Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

The code is written to _____ the program.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ implement

correct

☐ design

☐ analysis

☐ test

Made by: Waqar Siddhu

Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

The appropriate data type to store the number of rows and columns of the matrix is _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ float

☐ strings

☐ int

correct

☐ char

Made by: Waqar Siddhu

Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

A class whose object is contained as const object, must have _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Getter/Setter Functions

☐ Default Constructor

☐ Parameterized Constructor

☐ Operator Overloading Functions

correct

Made by: Waqar Siddhu

Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ data members of a contained object can be accessed from inside of the containing class.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Private

☐ Public

☐ Protected

☐ All

correct

Made by: Waqar Siddhu

Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

The initializer list is used to initialize the contained objects of a class at _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Run time

☐ Debugging time

☐ Construction time

☐ Compile time

correct

Made by: Waqar Siddhu

Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

The normal source of cin object is _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ File

☐ Disk

☐ Keyboard

☐ RAM

correct

Made by: Waqar Siddhu

Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

We can use cin.peek() function to _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ See the next character that we are going to get.

☐ Get to the end of the input buffer.

☐ See the first character of input buffer.

☐ See the last character of the current input word.

correct

Made by: Waqar Siddhu

Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

When an object of a class is defined inside another class then _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Destructor of enclosing class will be called first

☐ Destructor of inner object will be called first

☐ Constructor and Destructor will be called simultaneously

☐ Only destructor will be called

correct

Made by: Waqar Siddhu

Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

The order of destruction of an object is _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

- ☐ same as the construction order.
- ☐ reverse as the construction order.
- ☐ independent of the construction order.
- ☐ same as the order of objects declared.

correct

Made by: Waqar Siddhu

Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

A macro when takes arguments is called _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

- ☐ function
- ☐ procedure
- ☐ parameterized macro
- ☐ simple macro

correct

Made by: Waqar Siddhu

Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

Which is NOT a protection level provided by classes in C++?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

- ☐ protected
- ☐ hidden
- ☐ private
- ☐ public

correct

Made by: Waqar Siddhu

Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

What should be the return type of the constructor?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ void pointer

☐ int

☐ same as object type

☐ constructors do not return any thing

correct

Made by: Waqar Siddhu

Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following function call is correct for the function prototype?
defaultParameters (int a, int b = 7, char z = '*');

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ defaultParameters (5);

correct

☐ defaultParameters (5, '8');

☐ defaultParameters (6, '#');

☐ defaultParameters (0, 0, '*', 0);

Made by: Waqar Siddhu

Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following function cannot be overloaded?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Member functions

☐ Utility functions

☐ Constructor

☐ Destructor

correct

Made by: Waqar Siddhu

Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

Users must not know about _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐

Methods functionality with in class

correct

☐

Objects of class

☐

Functions name within class

☐

Class implementation of functionality and interfaces

Made by: Waqar Siddhu

Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

new and delete are also used with _____ and primitive data types as well.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐

loops

☐

structures , pointers

☐

classes , structures

correct

☐

constant

Made by: Waqar Siddhu

Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

If there is a symbol (& sign) used with the variable name followed by data type then it refers to _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐

Logic expression

☐

Value of variable

☐

Reference variable

☐

Address of variable

correct

Made by: Waqar Siddhu

Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

Consider the following code segment.

```
class M {  
public:  
    M &operator+(const M &),  
    ...  
};
```

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Member function

correct

☐ Non-member function☐ Friend function☐ Virtual function

Made by: Waqar Siddhu

Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

Sequence of event(s) when deallocating memory using delete operator is _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Only block of memory is deallocated for objects☐ Only destructor is called for objects☐ Memory is deallocated first before calling destructor

correct

☐ Destructor is called first before deallocating memory

Made by: Waqar Siddhu

Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

```
M &operator+(const M &),  
...  
};  
  
p + q //code of line implies that p.operator+(q)
```

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Member function☐ Non-member function☐ Friend function☐ Virtual function

Made by: Waqar Siddhu

Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

```
...
};
p + q //code of line implies that p.operator+(q)
...
```

Let assume if p and q are class objects then function is implemented as _____

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Member function☐ Non-member function☐ Friend function☐ Virtual function

Made by: Waqar Siddhu

Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

Sequence of event(s) when deallocating memory using delete operator is _____

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Only block of memory is deallocated for objects☐ Only destructor is called for objects☐ Memory is deallocated first before calling destructor☐ Destructor is called first before deallocating memory

Made by: Waqar Siddhu

Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

What will be the correct syntax of declaration of the following statement?
ptr is a pointer to const int.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☒ const int *ptr;

correct

☐ int* const ptr;☐ int const *ptr;☐ const *int ptr;

Made by: Waqar Siddhu

Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

A constructor has the same name as that of _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Variable

☒ Class

correct

☐ Structure

☐ Function

Made by: Waqar Siddhu

Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

Whenever **new** operator is called to create an object, the _____ is also called for that object.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☒ Constructor

correct

☐ Destructor

☐ Pointer

☐ Array

Made by: Waqar Siddhu

Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

The destructor for all the objects in the program is automatically called when _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Memory is dynamically allocated to objects

☐ Objects are used inside functions

☐ Array of objects is declared

☒ Program is terminated

correct

Made by: Waqar Siddhu

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

What will be the value of the given expression after evaluation if $x = 3$ and $y = 2$?

$(++x*++y)-2$

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

Friendship in classes/functions is granted or taken ? How it is granted or taken ?

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Write a C/C++ statement to print a floating point number 1.234 in a 9-digit field with preceding zeros.

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Write down the meaning of given below line of code, where m is an object of class Matrix

```
if( &m != this)
```

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

What will be the output of given program code?

```
main()
{
    char province[] = "Sindh",
    char s[80];
```

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

```
strcpy(s, "Hyderabad");
strcat(s, " and ");
strcat(s, province);
```

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

```
cout << s;  
}
```

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Identify and correct the error in the given code segment.
main()
{
int val = 30;
int &ref = val;

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

```
int val = 30;  
int &ref = val;  
  
&ref = &ref++;  
}
```

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Write a simple program which uses the `getline()` member function of `cin` object for reading a string of 30 characters from the keyboard as long as the user presses ENTER key and display the result.

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

Given lines of code are three important functions of a class `Matrix`, describe each in one line
`Matrix(int=0, int=0);`
`Matrix(const Matrix &);`
`~Matrix();`

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Write a program that defines a Template function named `Square()` which finds the square of a number and then return it. Define one variable of type **double** in main function and then call `Square` function on that.

Program output should look like this:

Enter a double value to find its Square: 235.3

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

VSX Reader:

Program output should look like this:

Enter a double value to find its Square: 235.3
Square of double number is: 55366.1

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com



Answer area for Question 49.

Made by: Waqar Siddhu

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Convert the following switch statement code into if statements.

```
switch (operator) {  
case '+':  
    result = op1 + op2;  
    break;
```

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com



Answer area for Question 50.

Made by: Waqar Siddhu

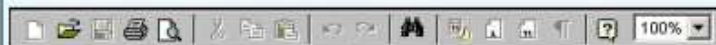
Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

```
        break;  
case '-':  
    result = op1 - op2;  
    break;  
case 'x':  
case '*':
```

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com



Answer area for Question 50.

Made by: Waqar Siddhu

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

```
case 'x':  
case '*':  
    result = op1 * op2;  
    break;  
case '/':  
    result = operand1 / operand2;
```

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

```
case '/':  
    result = operand1 / operand2;  
    break;  
default:  
    cout << "Unknown operator";  
}
```

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

```
    result = operand1 / operand2;  
    break;  
default:  
    cout << "Unknown operator";  
}
```

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 51 of 52

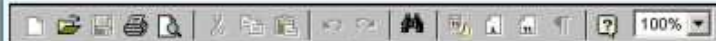
Marks: 5 (Budgeted Time 10 Min)

Given is the code for the class myClass.

```
class myClass
{
private:
    int x ;
```

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com



Answer area for the first question, showing a rich text editor interface with a toolbar and a large text area.

Made by: Waqar Siddhu

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

```
int x ;
int y,

public:
    myClass()
```

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com



Answer area for the second question, showing a rich text editor interface with a toolbar and a large text area.

Made by: Waqar Siddhu

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

```
myClass()
{
    x = 0;
    y = 0;
}
```

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com



Answer area for the third question, showing a rich text editor interface with a toolbar and a large text area.

Made by: Waqar Siddhu

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

```
}  
  
):  
  
You are required to write the code to perform the following task in the main() function.
```

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Rich text editor toolbar with icons for Bold, Italic, Underline, Text Color, Background Color, Bulleted List, Numbered List, Indent, Outdent, Link, Unlink, and others. The text area is empty.

Made by: Waqar Siddhu

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

You are required to write the code to perform the following task in the main() function.

- Prompt the user to enter the number of objects to be created.
- Dynamically allocate memory to objects according to the size entered by user.
- De-allocate memory that was allocated to objects.

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Rich text editor toolbar with icons for Bold, Italic, Underline, Text Color, Background Color, Bulleted List, Numbered List, Indent, Outdent, Link, Unlink, and others. The text area is empty.

Made by: Waqar Siddhu

Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Write a small program which defines a user define manipulator named star, this manipulator should display the output separated by four stars.

For example the output of the program should look like this

Virtual****University

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com

Rich text editor toolbar with icons for Bold, Italic, Underline, Text Color, Background Color, Bulleted List, Numbered List, Indent, Outdent, Link, Unlink, and others. The text area is empty.

Made by: Waqar Siddhu