Question 01

- 1. Consider the following Graphical User Interface(GUI) and identify 03 components used →Text box , Radio button, checkbox, group box, label
- Write any 2 properties of the above controls→Radio button, checkbox, Textbox
- 3. Write the code to add the city "Delhi" to the list.

```
private void btnAdd_Click(object sender, EventArgs e)
{
   string[] citys = { "Mumbai", "Bangalore", "Hydrabad", "Delhi" };
   listBox1.Items.AddRange(citys);
}
```

4. Write the c# code to calculate the area of a circle for a given radious r.

```
1 reference
private void btnConvert_Click(object sender, EventArgs e)
    if (rdoFahr.Checked)
        double c = Convert.ToDouble(txtTemp.Text);
        txtEquals.Text = Convert.ToString((c * 1.8) + 32);
    else if (rdoCelsius.Checked)
        double f = Convert.ToDouble(txtTemp.Text);
        txtEquals.Text = Convert.ToString((f - 32) * 5 / 9);
private void brnReset_Click(object sender, EventArgs e)
    txtEquals.Clear();
    txtTemp.Clear();
    rdoFahr.Checked= false;
    rdoCelsius.Checked= false;
1 reference
private void btnExit_Click(object sender, EventArgs e)
    Application . Exit();
```

Question 03

- 1- Language Translators translate the source code to machine code Ex: Compiler, interpreter
- 2-Java, C++, Vb
- 3- can store multiple values in single variable of same type. it is used to store the collection of data.

4-

a.

```
int n = 0;
   while (n <= 15)
       Console.WriteLine(n.ToString());
       n += 1; //n=n+1; or n++;
   C:\Users\Hi\Desktop\Model Paper VAP\Q03_4\Q03_4\bin\Debug\Q03_4.exe
  0
  1
  3
4
5
6
  8
  9
un 10
  11
  12
  13
  14
  15
```

c.

```
int counter = 10;
do
{
    Console.WriteLine($"Hello World!" + counter);
    counter++;
} while (counter <= 3);

C:\Users\Hi\Desktop\Model Paper VAP\Q03_4\Q03_4\bin\Debug\Q03_4.exe
Hello World!10</pre>
```

- 5. Consider the following expressions and write their outputs
 - a. Console.WriteLine((2.0 2.0) / 4);

```
Console.WriteLine((2.0 - 2.0) / 4);

C:\Users\Hi\Desktop\Model Paper VAP\Q03_5\Q03_5\bin\Debug\Q03_5.exe
```

b. Console.WriteLine((12>3)||(4>15));

```
Console.WriteLine((12 > 3) || (4 > 15));

C:\Users\Hi\Desktop\Model Paper VAP\Q03_5\Q03_5\bin\Debug\Q03_5.exe
True
```

C. int num = 10;
 Console.WriteLine(--num);
 Console.WriteLine(++num);
 Console.WriteLine(num);
 Console.WriteLine(num++);

```
int num = 10;
Console.WriteLine(--num);
Console.WriteLine(num);
Console.WriteLine(num);
Console.WriteLine(num++);
Console.WriteLine(num++);
Console.WriteLine(num++);
```

Question 04

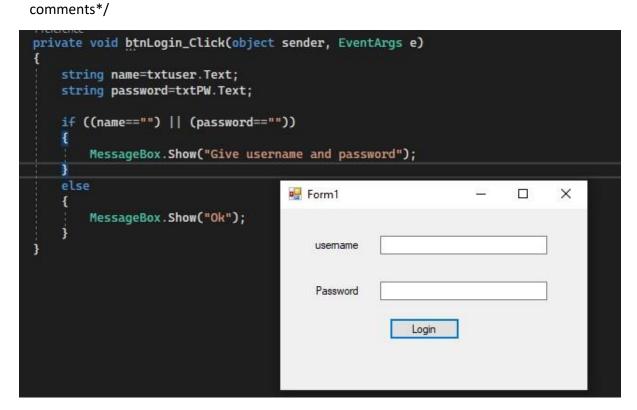
1. CLR stands for Common Language Runtime and it is the foundation of the .NET framework. The CLR is responsible for managing the execution of .NET applications, providing services such as memory management, type safety, security, and exception handling. It acts as a runtime environment for executing compiled code, and it also serves as an interface between the .NET applications and the operating system.

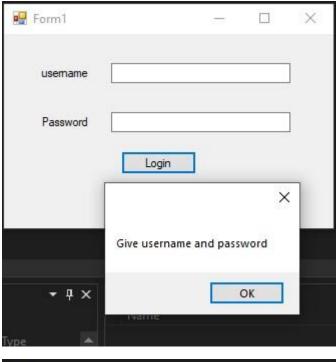
2.

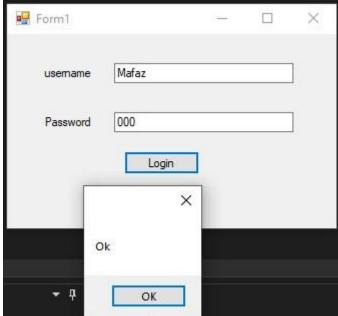
- variable contain a-z or A-Z, 1-9.
- name are case sensitive.
- must start with letter.
- cannot use C# keywords as a variable.
- connot put white space.

• can use underscore indeed the white space.

3. Single line comments //IT IS SINGLE LINE Multi line comment /*it is multi line







Question 05

- 1. Provide data for the specific event in C# application.
- 2. Mouse events , keyboard events, windows events, timer events

3. a.

b.

```
String[] cars = { "Volvo", "BMW", "Toyota", "Ford", "Mazda", "Bugatti" };

//a.

/*for (int a = cars.Length - 1; a >= 0; a--)
{
    Console.Write(cars[a] + "\n");
}*/

//b.

cars[3] = "Nissan";
for (int a = 0; a < cars.Length; a += 2) //a=a+2
{
    Console.Write(cars[a] + "\n");
}</pre>
```