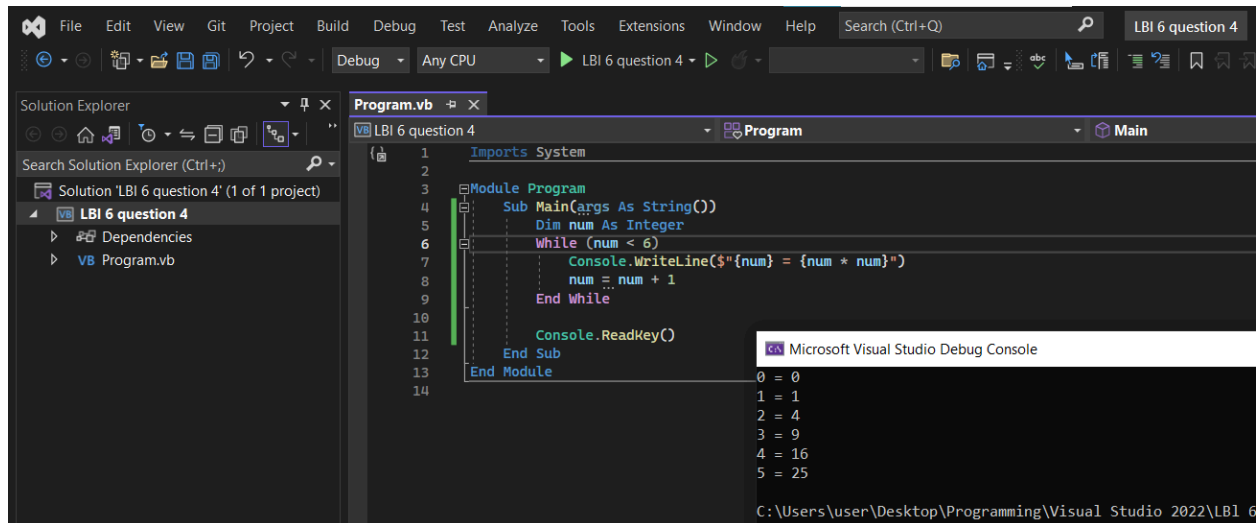


Topic : Repetition/Iteration – Use WHILE..END WHILE loop

1. Write a While loop that displays each integer from 1 to 5 on a separate line, along with its square.



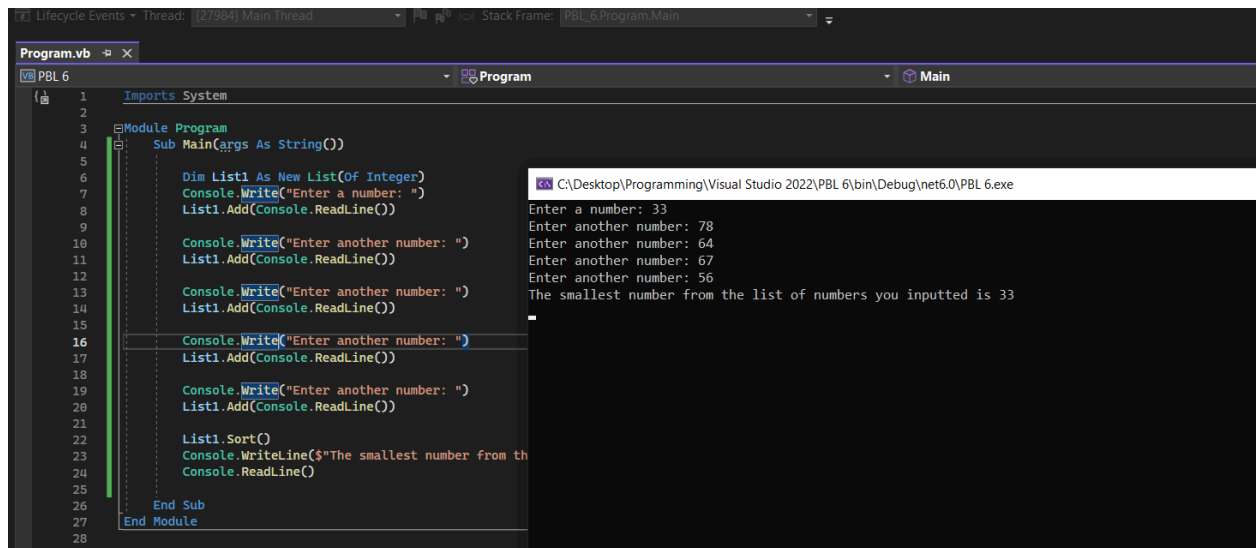
The screenshot shows the Visual Studio IDE with a project named 'LBI 6 question 4'. The code in 'Program.vb' is as follows:

```
1 Imports System
2
3 Module Program
4     Sub Main(args As String())
5         Dim num As Integer
6         While (num < 6)
7             Console.WriteLine($"{num} = {num * num}")
8             num = num + 1
9         End While
10
11         Console.ReadKey()
12     End Sub
13 End Module
14
```

The Microsoft Visual Studio Debug Console shows the output of the program:

```
0 = 0
1 = 1
2 = 4
3 = 9
4 = 16
5 = 25
```

2. Write a program to find the smallest number in a list of 5 positive integers.



The screenshot shows the Visual Studio IDE with a project named 'PBL 6'. The code in 'Program.vb' is as follows:

```
1 Imports System
2
3 Module Program
4     Sub Main(args As String())
5
6         Dim List1 As New List(Of Integer)
7         Console.WriteLine("Enter a number: ")
8         List1.Add(Console.ReadLine())
9
10        Console.WriteLine("Enter another number: ")
11        List1.Add(Console.ReadLine())
12
13        Console.WriteLine("Enter another number: ")
14        List1.Add(Console.ReadLine())
15
16        Console.WriteLine("Enter another number: ")
17        List1.Add(Console.ReadLine())
18
19        Console.WriteLine("Enter another number: ")
20        List1.Add(Console.ReadLine())
21
22        List1.Sort()
23        Console.WriteLine($"The smallest number from the list of numbers you inputted is {List1.Min}")
24        Console.ReadLine()
25
26    End Sub
27 End Module
28
```

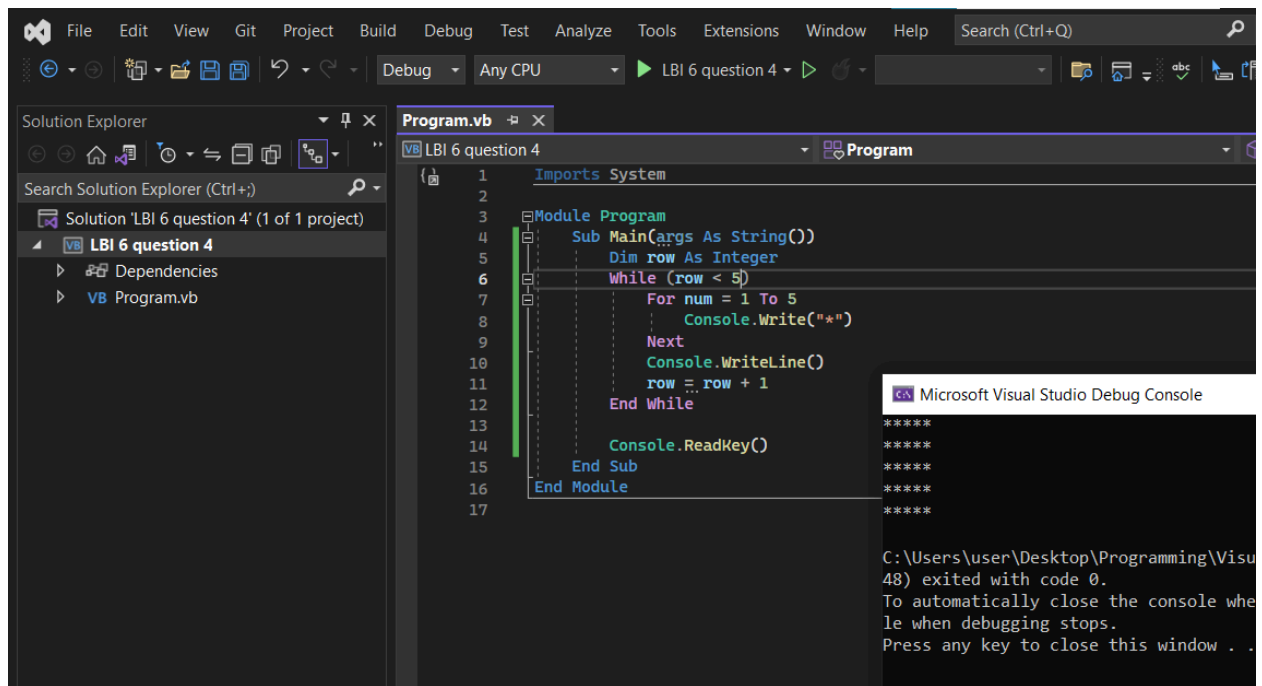
The output window shows the user input and the result:

```
Enter a number: 33
Enter another number: 78
Enter another number: 64
Enter another number: 67
Enter another number: 56
The smallest number from the list of numbers you inputted is 33
```

3. Write a program to add a list of positive number input by the user. The loop is terminated when an input of -1 is entered.

4. Write a program to print the following using a While..End While loop.

```
* * * * *  
* * * * *  
* * * * *  
* * * * *  
* * * * *
```



5. Write a program to print the following using a While..End While loop.

```
A  
AB  
ABC  
ABCD  
ABCDE
```

