# Task 1:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace task1
    class Program
        static double area_of_circle(double radius)
            return Math.PI * (Math.Pow(radius, 2));
        static double area_of_triangle(double height, double baseOfTri)
            return (height * baseOfTri) / 2;
        static void Main(string[] args)
            Console.WriteLine("Enter Radius: ");
            double radius = Convert.ToDouble(Console.ReadLine());
            Console.WriteLine("Area of Circle: {0}", area_of_circle(radius));
            Console.WriteLine("Enter Height: ");
            double height = Convert.ToDouble(Console.ReadLine());
            Console.WriteLine("Enter Base: ");
            double baseOfTri = Convert.ToDouble(Console.ReadLine());
            Console.WriteLine("Area of Triangle: {0}",
            area_of_triangle(height, baseOfTri));
            Console.ReadKey();
```

```
PS C:\Users\ADMIN\Desktop\WE\Labs\Lab#04\tasks\task1> dotnet run
Enter Radius:
25
Area of Circle: 1963.4954084936207
Enter Height:
14
Enter Base:
5
Area of Triangle: 35
```

## Task 2:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApplication1
{
    class Program
    {
        if (op == "+")
        {
            return a + b;
        }
        else if (op == "-")
        {
            return a * b;
        }
        else if (op == "*")
        {
            return a * b;
        }
        else if (op == "/")
        {
            return a / b;
        }
        else if (op == "/")
        {
            return a / b;
        }
        return a / b;
    }
}
```

```
Enter a:
2
Enter op:
+
Enter b:
2
Result : 4
```

#### Task 3:

```
int start = Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter end: ");
    int end = Convert.ToInt32(Console.ReadLine());
    while (start <= end)
    {
        if (start % 2 == 1)
        {
            Console.WriteLine("Odd: {0}",start);
        }
        else{
            Console.WriteLine("Even: {0}",start);
        }
        start++;
    }
    Console.ReadKey();
}</pre>
```

```
Enter start:
Enter end:
Odd: 1
Even: 2
Odd: 3
Even: 4
Odd: 5
Even: 6
Odd: 7
Even: 8
Odd: 9
Even: 10
Odd: 11
Even: 12
Odd: 13
Even: 14
Odd: 15
```

# Task 4:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace task4
    class Program
        static void Main(string[] args)
           Console.WriteLine("Enter String: ");
            string str = Convert.ToString(Console.ReadLine());
            string reverse = "";
            for (int i = str.Length - 1; i >= 0; i--)
                reverse += str[i];
            Console.WriteLine("Orignal String: {0}", str);
            Console.WriteLine("Reverse String: {0}", reverse);
            Console.ReadKey();
```

```
Enter String:
waleed
Orignal String: waleed
Reverse String: deelaw
```

### Task 5:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace task5
    class Program
        static void Main(string[] args)
            Console.WriteLine("Enter target: ");
            int target = Convert.ToInt32(Console.ReadLine());
            int[] arr = { 1, 3, 5, 6 };
            for (int i = 0; i < arr.Length; i++)</pre>
                if (arr[i] == target)
                    Console.WriteLine("Found");
                    break;
            Console.WriteLine("Not Found");
            Console.ReadKey();
```

```
Enter target:
5
Found
```

#### Task 6:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
```

```
namespace task6
    class Program
        static void Main(string[] args)
                    if (j >= i)
                        Console.Write(k);
                    else
                        Console.Write(k);
                Console.WriteLine();
            Console.ReadLine();
```

```
PS C:\Us
12345
21234
32123
43212
54321
```