

Example:

Write a program that Read a number, if number is 1, print One, if number is 2 print Two, if number is 3 print Three, otherwise print Out Of Range

```
class Test
{
    public static void Main()
    {
        int num;
        Console.WriteLine("Enter a value");
        num = int.Parse(Console.ReadLine());
        if(num == 1)
        {
            Console.WriteLine("One");
        }
        else
        {
            if(num == 2)
            {
                Console.WriteLine("Two");
            }
            else
            {
                if(num == 3)
                {
                    Console.WriteLine("Three");
                }
                else
                {
                    Console.WriteLine("Out Of Range");
                }
            }
        }
    }
}
```

```
switch .. case

switch(var_name)
{
    case const1:
        ....
        break;
    case const2:
        ....
        break;
    .
    .
    [default:]
        ....
        break;
}
```

```
class Test
{
    public static void Main()
    {
        int num;
        Console.WriteLine("Enter a value");
        num = int.Parse(Console.ReadLine());
        switch(num)
        {
            case 1:
                Console.WriteLine("One");
            break;
            case 2:
                Console.WriteLine("Two");
            break;
            case 3:
                Console.WriteLine("Three");
            break;
            default:
                Console.WriteLine("Out Of Range");
            break;
        }
    }
}
```

Iteration (looping) statement

1) for loop

```
class Test
{
    public static void Main()
    {
        int Sum;
        int Count;
        Sum = 0;
        Count = 1;
        for( ; Count <= 100 ; )
        {
            Sum = Sum + Count;
            Count++;
        }
        Console.WriteLine($"Total = {Sum}");
    }
}
```

2) while loop

```
class Test
{
    public static void Main()
    {
        int Sum;
        int Count;
        Sum = 0;
        Count = 1;
        while(Count <= 100)
        {
            Sum = Sum + Count;
            Count++;
        }
        Console.WriteLine($"Total = {Sum}");
    }
}
```

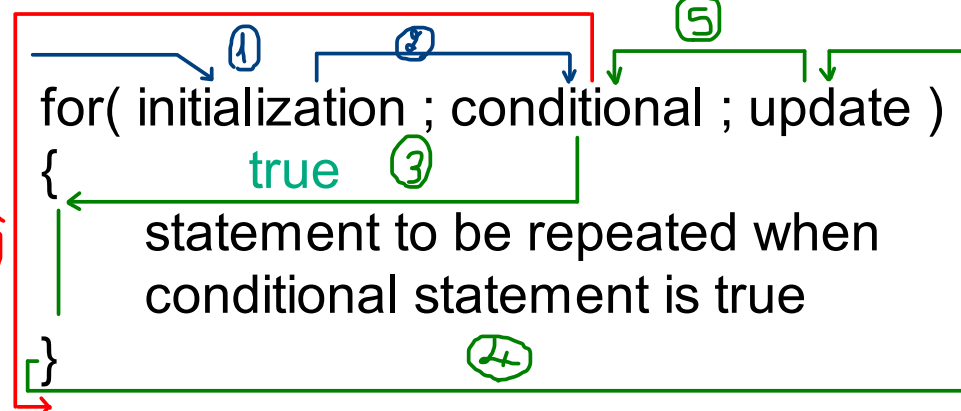
Sum:

5050

Count:

101

False
⑥



while(condition)

{

statement to be repeated when
conditional statement is true

}

3) do .. while

do

{

}while(condition);

Methods:

is a block of code that perform a specific task

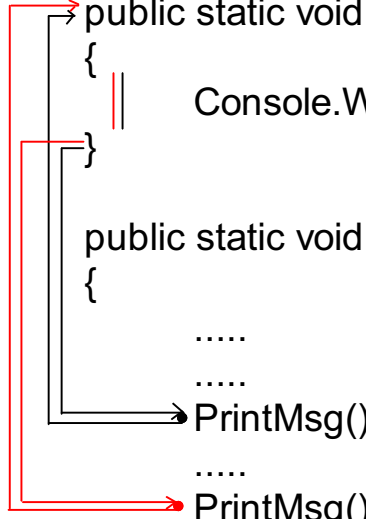
```
ret_type Method_Name(parameter_list)
{
    Code
}
```

Example:

Write a method that print "Welcome from method"

```
class Test
{
    public static void PrintMsg()
    {
        Console.WriteLine("Welcome from Method");
    }

    public static void Main()
    {
        .....
        .....
        PrintMsg();
        .....
        PrintMsg();
    }
}
```

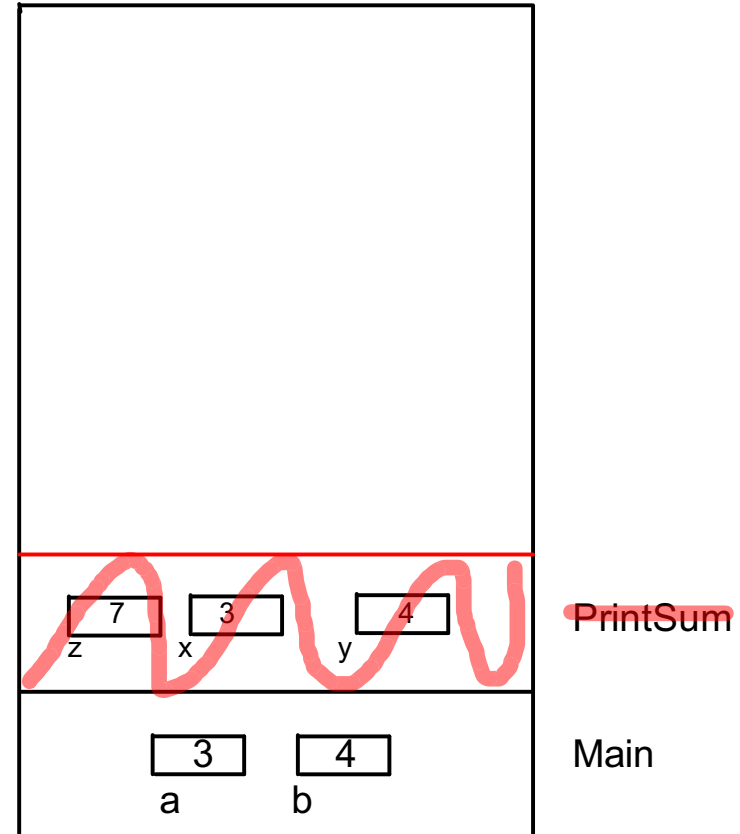


Example:
Write a method that print the sum of 2 numbers

```
class Test
{
    public static void PrintSum(int x, int y)
    {
        int z;
        z = x + y;
        Console.WriteLine(z);
    }

    public static void Main()
    {
        int a = 3, b = 4;
        PrintSum(a, b);
    }
}
```

Data Segment



Example:
Write a method that calculate the sum of 2 numbers

```
class Test
{
    public static int Sum(int x, int y)
    {
        int z;
        z = x + y;
        return z;
    }

    public static void Main()
    {
        int a = 3, b = 4;
        int s;
        s = Sum(a, b);
        ....
    }
}
```

