

ASSIGNMENT 03 Solution

```
//1.
    int i=10;
    while(i<5) //false : No output
    {
        i++;
        System.out.println(i);
    }
}

//2.
public class Day3_Q2
{
    public static void main(String[] args)
    {
        int result = 90;

        if(result > 40)
            System.out.println("Passed");
        else
            System.out.println("Failed");
    }
}

//3.
    for(int i =0;i<10;i++)
    {
        System.out.print('!'); //10 times printed
    }

    //output : !!!!!!!!!!!

//4.
    int number = 10;

    while(number < 15)
    {
        System.out.print("*"); //10 times printed
    }
}
```

```
    number++;  
}
```

```
//output :
```

```
*  
*  
*  
*  
*
```

```
//5.
```

```
import java.util.Scanner;  
public class Day3_Q5  
{  
    public static void main(String[] args)  
    {  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter the value of i");  
        int i = sc.nextInt();  
        System.out.println("Enter the value of j");  
        int j = sc.nextInt();  
  
        while(i<10)  
        {  
            i++;  
  
            if(j == 0)  
            {  
                break;  
            }  
            else if(j ==1)  
            {  
                continue;  
            }  
            System.out.println(i);  
        }  
        System.out.println("Finish");  
    }  
}
```

```

    }
}

//output :
Enter the value of i
    2
Enter the value of j
    5

    3
    4
    5
    6
    7
    8
    9
    10
    Finish

// Q. 6
import java.util.Scanner;
public class Day3_Q6
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the value of i :");
        int i = sc.nextInt();

        switch(i)
        {
            case 1: System.out.println("Youonly got 1 mark, see a teacher");
                    break;
            case 2: System.out.println("You have fot very low marks,see a teacher");
                    break;
            case 3: System.out.println("You have fot  low marks,see a teacher");
                    break;
        }
    }
}

```

```

        case 4: System.out.println("You got less than half marks, you need to do
more");
            break;
        case 5: System.out.println("You got half marks, you need to do mor");
            break;
        case 6: System.out.println("You are doing already but could study more");
            break;
        case 7: System.out.println("congratulation you have done well");
            break;
        case 8: System.out.println("congratulation you have done very well");
            break;
        case 9: System.out.println("congratulation you have almost full marks ");
            break;
        case 10: System.out.println("congratulation you have full marks");
            break;
        default:
            System.out.println("You have failed abysmally");

    }

    sc.close();
}

//7.
import java.util.Scanner;
public class Day3_Q2
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        int i;

        do
        {
            System.out.println("Enter the value of i");
            i = sc.nextInt();

```

```

        System.out.println(i); //for each value of i, only that value of i
printed on console
        //                                if i = 0 , then loop ended
    }while(i != 0);

}
}

//output :
Enter the value of i
1
1
Enter the value of i
2
2
Enter the value of i
0
0

```

//8.

```

public class Day3_Q8
{
    public static void main(String[] args)
    {
        String name = "Mumbai";
        System.out.println("Hello " + name);
    }
}

```

//output : Hello Mumbai

//9.

```

public class Day3_Q9
{
    public static void main(String[] args)
    {
        for(int i=10; i<=20; i++)
        {
            System.out.println(i);
        }
    }
}

```

```

    }

}

/*
output :
    10
    11
    12
    13
    14
    15
    16
    17
    18
    19
    20
*/

//10.

public class Day3_Q10
{
    public static void main(String[] args)
    {
        if(i = 10)    //error: cannot find symbol
        {
            System.out.println("Success");
        }

    }
}

//11. Not equal to 0 using for loop

public class Day3_Q11
{

```

```

public static void main(String[] args)
{
    for(int i=5;i!=0;i--)
    {
        System.out.print(i+" ");
    }

}
}
//output : 5 4 3 2 1

//12.

public class Day3_Q12
{
    public static void main(String[] args)
    {
        int i = 15;
        if((i<10) || (i == 15))
            System.out.println(i); //15
    }
}
//output : 15

//13.
import java.util.Scanner;
public class Day3_Q13
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.err.println("Enter the value of n : ");
        int n = sc.nextInt();
        for(int i=1;i<=10;i++)
        {
            System.out.println(n+" * "+i+" = "+(n * i));
        }
    }
}

```

```

    }
}
}
/*
Output:
Enter the value of n :
10
10 * 1 = 10
10 * 2 = 20
10 * 3 = 30
10 * 4 = 40
10 * 5 = 50
10 * 6 = 60
10 * 7 = 70
10 * 8 = 80
10 * 9 = 90
10 * 10 = 100
*/

//14.
import java.util.Scanner;
class Day3_Q14
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the value of n: ");
        int n = sc.nextInt();

        int fact = 1;
        int i = 1;
        while(i <= n)
        {
            fact = fact * i;
            i++;
        }
        System.out.println("Factorial of number "+n+" = "+fact);
    }
}

```



```

    }

}

/*
output :

Enter the value of n:
6
Factorial of number 6 = 720
*/

//15.
import java.util.Scanner;
public class Day3_Q15
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the value of n: ");
        int n = sc.nextInt();
        int sum = 0;

        while(n > 0)
        {
            int rem = n % 10;
            sum += rem;
            n /= 10;

        }
        System.out.println("Sum of Digit : "+sum);
    }
}

/*
Enter the value of n:
153
Sum of Digit : 9
*/

```

```
//16. Prime number or not
import java.util.Scanner;

public class Day3_Q16
{
    static boolean isPrime(int n)
    {
        for(int i=2 ; i < n/2 ; i++) //prime number start with 2
        {
            if(n % 2 == 0)
                return true;
        }
        return false;
    }

    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the value of n: ");
        int n = sc.nextInt();

        boolean flag = isPrime(n);
        if(flag == true)
            System.out.println(n+" is not prime number");
        else
            System.out.println(n+" is prime number");

    }
}

/*
Enter the value of n:
5
5 is prime number
*/
```

```
// Q.17
import java.util.Scanner;
public class Day3_Q17
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the choice :");
        int choice = sc.nextInt();

        switch(choice)
        {
            case 1: System.out.println("January");
                    break;
            case 2: System.out.println("February");
                    break;
            case 3: System.out.println("March");
                    break;
            case 4: System.out.println("April");
                    break;
            case 5: System.out.println("May");
                    break;
            case 6: System.out.println("June");
                    break;
            case 7: System.out.println("July");
                    break;
            case 8: System.out.println("August");
                    break;
            case 9: System.out.println("September");
                    break;
            case 10: System.out.println("October");
                    break;
            case 11: System.out.println("November");
                    break;
            case 12: System.out.println("December");
                    break;
            default:
                System.out.println("Invalid Choice....");
        }
    }
}
```

```

    }

    sc.close();
}
}

/*
    Enter the choice :
    4
    April
*/

//18.
import java.util.Scanner;

public class Day3_Q18
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Simple Calculator");
        System.out.println("-----");

        System.out.println("Enter first number: ");
        int num1 = sc.nextInt();
        System.out.println("Enter second number: ");
        int num2 = sc.nextInt();

        System.out.println("\nChoose an operation\n1. Addition\n2. Suntraction\n3.
Multiplication\n4. Division\n");

        System.out.print("Enter the choice: ");
        int choice = sc.nextInt();
        do{
            switch(choice)

```

```

    {
        case 1: System.out.println("Addition: "+num1+" + "+num2+" = "+(num1 +
num2));
            break;

        case 2: System.out.println("Subtraction: "+num1+" - "+num2+" = "+(num1 -
num2));
            break;

        case 3: System.out.println("Multiplication: "+num1+" * "+num2+" = "+(num1
* num2));
            break;

        case 4: System.out.println("Division: "+num1+" / "+num2+" = "+(num1 /
num2));
            break;

        default:
            System.out.println("Invalid Choice....");
    }
}while(choice != 0);
}
}

/*
Simple Calculator
-----
Enter first number:
10
Enter second number:
20

Choose an operation
1. Addition
2. Suntraction
3. Multiplication
4. Division

```

Enter the choice: 3

Multiplication: $10 * 20 = 200$

*/