

Assignment No:-3

Name:-Suryawanshi Sangramsingh Sambhaji

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1. Write a program that takes in an integer and prints all the numbers from 1 to that integer, inclusive.

```
import java.util.*;
public class WhilePrintIntegers
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter any integer :");
        int a = sc.nextInt();
        System.out.println("Given integer is :");
        int i = 1;
        while(i<=a)
        {
            System.out.println(i);
            i++;
        }
    }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac WhilePrintIntegers.java
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java WhilePrintIntegers
Enter any integer :
10
Given integer is :
1
2
3
4
5
6
7
8
9
10
```

2. Write a program that takes in an integer and calculate sum of all the numbers from 1 to that integer.

```
import java.util.*;
public class WhilePrintSumOfIntegers
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter any integer :");
        int a = sc.nextInt();
        System.out.println("Given integer is :");
        int i = 1;
        int sum = 0;
        while(i<=a)
        {
            System.out.println(i);
            sum=sum+i;
            i++;
        }
        System.out.println("Sum of integers :"+sum);
    }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac WhilePrintSumOfIntegers.java
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java WhilePrintSumOfIntegers
Enter any integer :
5
Given integer is :
1
2
3
4
5
Sum of integers :15
```

3. Write a program that takes in an integer and prints all even the numbers from 1 to that integer.

```
import java.util.*;
public class WhilePrintEvenIntegers
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter any integer :");
        int a = sc.nextInt();
        System.out.println("Given even integer is :");
        int i = 1;
        while(i<=a)
        {
            if(i%2==0)
            {
                System.out.println(i);
            }
            i++;
        }
    }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac WhilePrintEvenIntegers.java
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java WhilePrintEvenIntegers
Enter any integer :
15
Given even integer is :
2
4
6
8
10
12
14
```

4. Write a program that takes in an integer and prints all Odd the numbers from 1 to that integer.

```
import java.util.*;
public class WhilePrintOddIntegers
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter any integer :");
        int a = sc.nextInt();
        System.out.println("Given odd integer is :");
        int i = 1;
        while(i<=a)
        {
            if(i%2!=0)
            {
                System.out.println(i);
            }
            i++;
        }
    }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac WhilePrintOddIntegers.java
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java WhilePrintOddIntegers
Enter any integer :
14
Given odd integer is :
1
3
5
7
9
11
13
```

5. Write a program that takes in an integer and prints sum of all even the numbers from 1 to that integer.

```
import java.util.*;
public class WhilePrintSumOfEvenIntegers
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter any integer :");
        int a = sc.nextInt();
        System.out.println("Given even integer is :");
        int i = 1;
        int sum = 0;
        while(i<=a)
        {
            if(i%2==0)
            {
                System.out.println(i);
                sum+=i;
            }
            i++;
        }
        System.out.println("Sum of even integers :"+sum);
    }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac WhilePrintSumOfEvenIntegers.java
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java WhilePrintSumOfEvenIntegers
Enter any integer :
15
Given even integer is :
2
4
6
8
10
12
14
Sum of even integers :56
```

6. Write a program that takes in an integer and prints sum of all odd the numbers from 1 to that integer.

```
import java.util.*;
public class WhilePrintSumOfOddIntegers
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter any integer :");
        int a = sc.nextInt();
        System.out.println("Given odd integer is :");
        int i = 1;
        int sum = 0;
        while(i<=a)
        {
            if(i%2!=0)
            {
                System.out.println(i);
                sum+=i;
            }
            i++;
        }
        System.out.println("Sum of odd integers :"+sum);
    }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac WhilePrintSumOfOddIntegers.java
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java WhilePrintSumOfOddIntegers
Enter any integer :
15
Given odd integer is :
1
3
5
7
9
11
13
15
Sum of odd integers :64
```

7. Write a program that takes in an integer and prints count of all even the numbers from 1 to that integer.

```
import java.util.*;
public class WhilePrintCountOfEvenIntegers
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter any integer :");
        int a = sc.nextInt();
        System.out.println("Given even integer is :");
        int i = 1;
        int count = 0;
        while(i<=a)
        {
            if(i%2==0)
            {
                System.out.println(i);
                count++;
            }
            i++;
        }
        System.out.println("count of even integers :"+count);
    }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingment_Java_Codenera>javac WhilePrintCountOfEvenIntegers.java
C:\Users\Shree\Desktop\Assingment_Java_Codenera>java WhilePrintCountOfEvenIntegers
Enter any integer :
10
Given even integer is :
2
4
6
8
10
count of even integers :5
```

8. Write a program that takes in an integer and prints count of all odd the numbers from 1 to that integer.

```
import java.util.*;
public class WhilePrintCountOfOddIntegers
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter any integer :");
        int a = sc.nextInt();
        System.out.println("Given odd integer is :");
        int i = 1;
        int count = 0;
        while(i<=a)
        {
            if(i%2!=0)
            {
                System.out.println(i);
                count++;
            }
            i++;
        }
        System.out.println("count of odd integers :"+count);
    }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingment_Java_Codenera>javac WhilePrintCountOfOddIntegers.java
C:\Users\Shree\Desktop\Assingment_Java_Codenera>java WhilePrintCountOfOddIntegers
Enter any integer :
10
Given odd integer is :
1
3
5
7
9
count of odd integers :5
```


9. Write a program that takes in an integer and prints count of all even the numbers from 1 to that integer.

```
import java.util.*;
public class WhilePrintCountOfEvenIntegers
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter any integer :");
        int a = sc.nextInt();
        System.out.println("Given even integer is :");
        int i = 1;
        int count = 0;
        while(i<=a)
        {
            if(i%2==0)
            {
                System.out.println(i);
                count++;
            }
            i++;
        }
        System.out.println("count of even integers :"+count);
    }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingment_Java_Codenera>javac WhilePrintCountOfEvenIntegers.java
C:\Users\Shree\Desktop\Assingment_Java_Codenera>java WhilePrintCountOfEvenIntegers
Enter any integer :
10
Given even integer is :
2
4
6
8
10
count of even integers :5
```

10. Write a program that takes in an integer and prints count of all odd the numbers from 1 to that integer.

```
import java.util.*;
public class WhilePrintCountOfOddIntegers
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter any integer :");
        int a = sc.nextInt();
        System.out.println("Given odd integer is :");
        int i = 1;
        int count = 0;
        while(i<=a)
        {
            if(i%2!=0)
            {
                System.out.println(i);
                count++;
            }
            i++;
        }
        System.out.println("count of odd integers :"+count);
    }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingment_Java_Codenera>javac WhilePrintCountOfOddIntegers.java
C:\Users\Shree\Desktop\Assingment_Java_Codenera>java WhilePrintCountOfOddIntegers
Enter any integer :
10
Given odd integer is :
1
3
5
7
9
count of odd integers :5
```

