Assignment No:-4

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1. Write a program to take input a no and print table.

```java
import java.util.*;
public class PrintTableWhile
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int no = sc.nextInt();
                System.out.println("Enter given Table number:");
                int j = sc.nextInt();
                System.out.println("Table of given number :");
                int i= 1;
                while(i<=no)
                {
                        System.out.println(i*j);
                        i++;
                }
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac PrintTableWhile.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java PrintTableWhile
Enter given number:
10
Enter given Table number:
4
Table of given number :
4
8
12
16
20
24
28
32
36
40
```

2. Write a program to find factorial of a no.

```java
import java.util.*;
public class FactorialOfNumber
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int no = sc.nextInt();
                int fact = 1;
                int i=1;
                while(i<=no)
                {
                        fact=fact*i;
                        System.out.print(i);
                        i++;
                }
                System.out.println("\n--------------------------------");
                System.out.println("Factorial of given number :"+fact);
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac FactorialOfNumber.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java FactorialOfNumber
Enter given number:
4
1234
------------------------------
Factorial of given number :24
```

3. Find the even and odd number from n digit number.

```java
import java.util.*;
public class EvenOddOfNumber
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int no = sc.nextInt();
                System.out.println("even of given number :");
                int j = 1;
                int i=1;
                while(i<=no)
                {
                        if(i%2==0)
                        {
                                System.out.println(i);
                        }
                        i++;
                }
                System.out.println("\n-------------------------------");
                System.out.println("odd of given number :");
                while(j<=no)
                {
                        if(j%2!=0)
                        {
                                System.out.println(j);
                        }
                        j++;
                }
                System.out.println("\n-------------------------------");

        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac EvenOddOfNumber.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java EvenOddOfNumber
Enter given number:
10
even of given number :
2
4
6
8
10

-----------------------------
odd of given number :
1
3
5
7
9

-----------------------------
```

4. Find the sum of n digit number.

```java
import java.util.*;
public class SumOfNthNumbers
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given n number:");
                int no = sc.nextInt();
                int sum = 0;
                int i=1;
                while(i<=no)
                {
                        System.out.print(" "+i);
                        sum=sum+i;
                        i++;
                }
                System.out.println("\n-------------------------");
                System.out.println("Sum of given number :"+sum);
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac SumOfNthNumbers.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java SumOfNthNumbers
Enter given n number:
10
 1 2 3 4 5 6 7 8 9 10
-----------------------
Sum of given number :55
```

5. Write a program to add multiple number, ask user to take input as their need.

   Press 0 to terminate inputting after that calculate sum of that inputted number.

```java
import java.util.*;
public class MultipleInputSumOfNumber
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("---------------------");
                int sum = 0;
                int i=-1;
                while(i!=0)
                {
                        System.out.println("Enter given n number(Press 0 to terminate the while loop):");
                        i = sc.nextInt();
                        sum=sum+i;
                }
                System.out.println("\n------------------------");
                System.out.println("Sum of given number :"+sum);
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java MultipleInputSumOfNumber
---------------------
Enter given n number(Press 0 to terminate the while loop):
1
Enter given n number(Press 0 to terminate the while loop):
2
Enter given n number(Press 0 to terminate the while loop):
3
Enter given n number(Press 0 to terminate the while loop):
4
Enter given n number(Press 0 to terminate the while loop):
5
Enter given n number(Press 0 to terminate the while loop):
6
Enter given n number(Press 0 to terminate the while loop):
7
Enter given n number(Press 0 to terminate the while loop):
8
Enter given n number(Press 0 to terminate the while loop):
9
Enter given n number(Press 0 to terminate the while loop):
10
Enter given n number(Press 0 to terminate the while loop):
0

------------------------
Sum of given number :55
```

6. Find the sum of even number of n digit number.

```java
import java.util.*;
public class EvenSumOfNumber
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int no = sc.nextInt();
                System.out.println("even of given number :");
                int i=1,sum=0;
                while(i<=no)
                {
                        if(i%2==0)
                        {
                                System.out.print(" "+i);
                                sum+=i;
                        }
                        i++;
                }
                System.out.println("\n-------------------------------");
                System.out.println(" sum of even number :"+sum);
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac EvenSumOfNumber.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java EvenSumOfNumber
Enter given number:
10
even of given number :
 2 4 6 8 10
------------------------------
 sum of even number :30
```

7. Reverse the Given number.

```java
import java.util.*;
public class ReverseNumber
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int no = sc.nextInt();
                int rem=0,rev=0;
                while(no!=0)
                {
                        rem=no%10;
                        rev=(rev*10)+rem;
                        no=no/10;
                }
                System.out.println("Given reverse number is :" +rev);


        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac ReverseNumber.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java ReverseNumber
Enter given number:
42352
Given reverse number is :25324
```

8. Write a program to check given number is palindrome number or not.

```java
import java.util.*;
public class CheckPalidrome
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int no = sc.nextInt();
                int rem=0,rev=0,temp=no;
                while(no!=0)
                {
                        rem=no%10;
                        rev=(rev*10)+rem;
                        no=no/10;
                }
                if(rev==temp)
                {
                        System.out.println("Given  number is palidrome:" +temp);
                }
                else
                {
                        System.out.println("Given  number is not palidrome :"+temp);

                }

        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac CheckPalidrome.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java CheckPalidrome
Enter given number:
12341
Given  number is not palidrome :12341

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java CheckPalidrome
Enter given number:
121
Given  number is palidrome:121
```

9. Find the max number from n digit number.

```java
import java.util.*;
public class ReverseMaxNo
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int no = sc.nextInt();
                int max=0;
                int rem=0;
                while(no!=0)
                {
                        rem=no%10;
                        if(rem>max)
                        {
                                max=rem;
                        }
                        no=no/10;
                }
                System.out.println("Given max number is :"+max);
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac ReverseMaxNo.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java ReverseMaxNo
Enter given number:
12345
Given max number is :5
```

10. Find the min number from n digit number.

```java
import java.util.*;
public class ReverseMinNo
{
        public static void main(String[]ar)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter given number:");
                int no = sc.nextInt();
                int min=10;
                int rem=0;
                while(no!=0)
                {
                        rem=no%10;
                        if(rem<min)
                        {
                                min=rem;
                        }
                        no=no/10;
                }
                System.out.println("Given min number is :"+min);
        }
}
```

Output:

```
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac ReverseMinNo.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java ReverseMinNo
Enter given number:
12345
Given min number is :1
```