ASSIGNMENT – 4

1.Write a program to print numbers from 1 to 10.

Program.

```
public class Loops {
public static void main(String[] args) {
for(int a=1;a<=10;a++)
System.out.print(a+" ");
}
}
```

Output:

1 2 3 4 5 6 7 8 9 10

2.Write a program to calculate the sum of first 10 natural number.

```
public class Loops {
public static void main(String[] args) {
int sum=0;
for(int a=1;a<=10;a++)
sum = a+sum;
System.out.print("Sum of 10 numbers"+sum);
}
}
```

3.Write a program that prompts the user to input a positive integer. It should then print the multiplication table of that number.

```
public class Loops {
public static void main(String[] args) {
 Scanner ss = new Scanner(System.in);
```

```
 System.out.print("Input a number: ");
 int num1 = ss.nextInt();

 for (int i=0; i< 10; i++)
 {
 System.out.println(num1 + " * " + (i+1) + " =
" + (num1 * (i+1)));
}
}
}
```

4.Write a program to find the factorial value of any number entered through the keyboard.

```
public class Loops {
public static void main(String[] args) {
int count = 1;
Scanner r = new Scanner(System.in);
System.out.println("Enter a number:");
 float num = r.nextFloat();
for (int i = 1; i <= num; i++) {
count = count * i;
}
System.out.println("Factorial number
is:"+count);
}
}
```

5.Two numbers are entered through the keyboard. Write a program to find the value of one number raised to the power of another. (Do not use Java built-in method)

6.Write a program that prompts the user to input an integer and then outputs the number with the digits reversed. For example, if the input is 12345, the output should be 54321.

```
public class Loops {
public static void main(String[] args) {
Scanner rn = new Scanner(System.in);
System.out.println("Enter a number");
int n = rn.nextInt();
int a, i = 0, j = 0;
a = n;
while (a > 0) //123>0
{
i = a % 10;//123%10=3
j = (j * 10) + i;//0*10=0+3=3 (3*10)+2=32
(32*10)+2=321
a = a / 10;//123/10=12
}
System.out.println("Reverse number is=" + j);
```