JAVA PROGRAMMING

1) Write a program to reverse a word using loop.

```
import java.util.scanner;
Public class reversseword {
    Public static void main (string [] args) {
    scanner input = new scanner (system.in);
    system.out.print ("Enter a word to reverse:");
    string name = input.nextLine();
    string reversed = "";
    For (int i = name.length()-1; i>=0; i--) {
      reversed = reversed + name.charAt(i);
    }
}
system.out.println(" Reversed Word:" + reversed);
}
}
```

2) Write an ~~username~~ program to check the entered username is valid or not.

```
import java.util.scanner;

Public class UserNameValidater {
  Public static void main(String[] args) {
  Scanner input = new Scanner(System.in);
  System.out.println("Enter the user name:");
  String UserName1 = input.nextLine();
  System.out.println("Reenter the user name:");
  String UserName2 = input.nextline();
  If (username1.equals(UserName2)) {
   System.out.println("Reenter the user name:");
   System.out.println("user name is valid");
  } else {
   System.out.println("User name is invalid");
  }
 }
}
```

1) Write a program to reverse a number using loop?

```
import . java . util . Scanner ;
Public class reverse Number {
  Public static void main (String [] args) {
    Scanner input = new Scanner (System.in);
    System. out.println("Enter a number to reverse :");
    int n = input. nextInt();
    int rev = 0;
    while (n != 0) {
      int rem = n % 10;
      rev = rev * 10 + rem;
      n = n / 10;
      }
      System. out. println ("Riverse Number:" + rev);
    }
  }
```

4) Write a program to find whether the person is eligible for vote or not.

```
import java.util.Scanner;
Public class VoterEligibility {
    Public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.println("Enter your age:");
        int age = input.nextInt();
        If (age>18){
            System.out.print("You are eligible to vote:");
        } else if (age<=0) {
            System.out.print("You are allowed to vote
after" + (18-age) + "Years");
        }
    }
}
```

5) Find the LCM and GCD of n numbers.

```
import java.util.Scanner;
Public class main {
  Public static void main (String [] args) {
  Scanner input = new Scanner (System.in);
  System.out.println("Enter the number of elements :");
  int n = input.nextInt();
  int n[] numbers = new int[n];
  System.out.println ("Enter the numbers:");
 For (int i=0; i<n; i++) {
  numbers[i] = input.nextInt();
    }
    int lcm = numbers(0);
    int gcd = numbers [0];
     }
     System.out.print ("LCM of the numbers :" + lcm);
     System.out.Print ("GCD of the numbers :" +gcd);
    }

    Public static int findGCD (int a, int b) {
    If (b==0) {
     return a;
    }
    return findGCD (b, a%.b);
     }

     }
```

6) Write a program to print right triangle star Pattern.

```
import java.util.Scanner;
Public class righttriangle {
    Public static void starrighttriangle (int n)
{
int a, b;
For (a=0; a<n; a++) {
For (b =0; b<=a; b++) {
    System.out.print (" * ");
}
System.out.println ();
}}
Public static void main (String args [])
{
int k = 5;
starRightTriangle (k);
}
}
```

7) Write a program to print below pattern?

```
import java.util.scanner;
class GFG {
  Public static void printPascal (int n)
  {
  For(int i=1; i<=n; i++) {
  For (int j=0; j<n; j++) {
     system.out.print(" ");
    }
    int x=1;
    For (int k=1; k<=i; k++) {
    system.out.print(x + " ");
     x = x * (i-k)/k;
    }
    system.out.println();
  }
  }
   Public static void main(string [] args)
   {
     int n = 4;
     Print Pascal(n);
    }
    }
```

8. Write a program using function to calculate the simple interest.

```
import java.util.Scanner;
Public class SimpleInterestCalculator {
  Public static void main(String[] args){
  Scanner input = new Scanner(System.in);
  System.out.print("Enter the principal amount :");
  int pri = input.nextInt();
  System.out.print("is the customer a senior citizen(y/n):");
  char age = input.next().charAt(0);
   double interest = 0.0;
   if (age == 'y'){
  interest = (pri * year * 0.12)/100;
   System.out.Print("interest :" + interest);
   } else {
   interest = (pri * year * 0.1)/100;
   System.out.print("interest :" + interest);
   }
   }
   }
```

9) write a program to find even sum of fibonaci series

```
import. java. util. scanner;
Public data class Fibonacci {
  Public static void main ( string [] args) {
  int n =10;
  int a1 = 0, a2=1; a3;
  int a[] = new int [50];
   for (int i=0; i<10; i++)
   {
    a[i] = a1;
    system. out. Println (a[i] + " ");
    a3 = a1 +a2;
    a1 = a2;
     a2 =a3;
   }
   int sum=0;
   for (int i=0; id=n*2; i =i+2)
   {
   sum= sum + a[i];
   }
   system. out. Println ("\nSum :" + sum);
   }
   }
```

10) Write a program to print the numbers from M to N by skipping k numbers.

```
Public class SkipNumbers {
    Public static void main(String[] args) {
    int M = 50;
    int N = 100;
    int k = 7;
    for (int i = M; i <= N; i += k) {
    System.out.print(i + ",");
        }
    }
}
```