(D) write a program to reverse a word using loop?

(Not to use in built functions).

(DDE:

import java. util. Scanner;

public class Reverse String {

public static void main (string[] args) {

scanner input = new Scanner (system. in);

system. out. print ("Entor a word:");

String name = input. next line ();

String tempty = "";

int len = name.length!);

for (inti = len-1; 1)=0; i--){

empty = empty + name.charAt(i);

}

system.out. println(" peverse word:" +

empty);

input. close ();

}

OUTPUT:

Enter a word: Hello Reversed word: Olleh.

```
2) write a program to check the entered username
  valid or not. Gret both the inputs from the user.
  CODE:
    import java util scanner;
    public class validate User Name !
       public Static void main (string[] args){
          Stanner input = new
    Scanner (system. in);
          System out print (" Enter the first string: ");
          string s1 = input. next line ();
          system out print ("Enter the second string:");
         string S2 = input. next line ();
         if (s1. equal (s2)) [
            system. out. print In (" user name Invalid ");
         input close 1);
   output:
      Enter the birst string: Hello
     Enter the second string: Hell oh
```

user name Invalid

```
3) write a program to reverse a number using loop?
  (Get the input from user).
   CODE:
     import java util . scanner;
     public class Reverse Number ?
         public static void main (string [] args){
           Stanner input = new
    scanner input (system. in);
           system.out.print (" Enter a number to reverse:");
           system. out print l'Enter a number to reverse
              int n = input next (nt l);
             int nev = 0;
             while (n!=0) {
               int nem = n % 10;
               ner = nev + 10 + rem;
              n = n/10;
        System outprint (" Reversed number; "trev);
           input. close();
   OUTPUT:
     Enter a number to reverse: 12345
```

Reversed number: 54321.

```
write a program to find whether the person is eligible write a program to find whether the person is eligible for not. And is that particular person for vote or not. And is that particular person is eligible for not how many years are left to be oligible.

LODE:
```

```
importgava. util. scanner;
public class voting Eligibility [
   public static void main [string[] args){
      scanner mont = new scanner (system. in);
     System. out. print (" Enter your age; "):
     int age = input. next lnt ();
     ib (age > (8) {
        System. out. println ("your are eligible
  to vote.");
    } else '4 (age < =0) {
         system. out. print (" Enter the age
  correctly.");
     3 else f
       system.out. println!" your are allowed
   vote after " +(18-age) + "years.");
    input. close 1);
```

OUTPUT:

Enter your age: 19 you are eligible to vote.

```
5) Find the LCM and GICD of n number?
  CODE:
    import java. util. sianner;
    public class ak
       static int gcd (inta, intb)
      { y a == 0)
           return bi
        neturn gcd (by. a, a);
      Static int findged lint a [] int n)
         int mes = = a[o];
        for (int i=0; izn; 1++)
           res=gcd (res, a[i]);
          y (nes ==1)
            neturn 1;
         neturn mes;
      public static void main (string [] args)
        scanner input = new
   scanner (system. in);
  int n=input.nextlnt 1);
```

```
int a[] = new int [h];
     for (int i = 0; i < n; i++)
    asij = input. nextint ();
   System. out. printin (find gcd (ain));
  int gcd = find gcd (ain);
   int mul = 1;
  for lint i=0, izn; i++).
   mul = mul * a[i];
  int lem = mul | g cd;
  System. out.print (n (lum);
OUTPUT:
 2
 34
```

43

1462.

```
write a program to print Right Mangle star pattern.
 CODE:
     import java. util. scanner:
     public class star pattern?
         public static void main (string[] args) {
            scanner input=new
     scanner (system. in);
            System. out. print l" Enter the number of rows: "):
            int n = input. nextInt();
            for (int i=1; i ==n; 1++) f
               for (int j=1; j=n-i, j++){
                  System.out.print (" ");
              for (int K=1; K==i; K++) {
                 system.out. print (""");
              system. out. printin!;
             input. close():
OUTPUT:
   Enter the number of nows: 5
```

```
1 write a program to print the below pattern?
   LODE:
    import java. util. scanner;
    public class Pascal Triangle ?
        public static void main (string[] args
           scanner input = new
       scanner (system. in);
           system. out. print (" Enter the number of rows: ");
            int n = input. next (nt ();
           for (int i=0; izn; i+1) {
              int a=1;
              for lint s=0; s Ln -i -1; s++) }
                system. out. print (" ");
             for lint j = 0; j = i; j++) {
               system. out. print (a+ "");
              a = a * (i - j) / (j+1);
             System out print(nl);
           input close ():
    OUTPUT.
     Enter the number of nows: 5
      1 2 1
     1331
     14641
```

write a pragram using function to calculate the simple interset. suppose the customer is a senior citizen. He is being offered 12 percent rate of interset; for all other customers, the Roi is 10 parcent. CODE: import java. util. scanner: public class Interset calculator f public Static Void main (String[] args) { scanner input=new Scanner (System . in); System. Out. print (" Enter the principle amount:"); double principle = input. next Double (); system. out. print (" Enter the number of years;) int years = input. nextint(); System. out. print (" Are you a senior citizen? (y/n): "): Char is Senior = input. next(). char At(0): double interset Rate = Lis senior == 'y') 9 0.12 : 0,10; double interest = (principle * years * interest Rate); system out print + (" calculated interset; 1. 27/n", interet) input.close(); 4

OUTPUT:

Enter the principal amount: 200000

Enter the number of years: 3

Are you a senior citizen? Lyln):n

calculated interset: 60000.00

```
Java Program to find Even sum of Fibonacii Seires
  till number N?
CODE:
     import java. util. scanner;
     public class Evensum pibonacii?
         public Static void main (String[] args) {
             Scanner input = new
      scanner ( system in);
           system. out. print ("Enter the value of n: ");
          int n= input. nextlot ();
          4 Ln <= 0) {
             system. out print In (The value of n must be positive);
                 return;
            int al= 0, a2 = 1, a3;
           int[] a = new int[] n* 2+17;
           for lint i=0; i <a, length; i++){
             if (i = =0) f
                a[i] == a1;
             Jelse y (1==1){
                a[i] = a2;
             3 else {
               93=91+92;
              a[i] = a3;
              a1 = a2;
              92 - 93;
```

```
system.out. print (" Fibonacci series: ");
         for (into; ica length; i++){
            System. out. print(a[i]+"");
          int sum = 0;
          for lint i=0; i ca, length; i+= 2) {
             som + = a [i];
          system.out. println ("Insum of Fibonacci numbers
     at even indies; " + sum);
           input close ();
   OUTPUT:
      Enter the value of n: 4
      Sum of fibonacii numbers at even-indices: 33.
10. write a program to print the numbers from M to N by
   skipping k numbers in between?
   LODE:
    iraport java. util. scanner;
    public class number Printer of
        public static void main (string[]args) {
             scannor input = new scanner (system.in);
             system. out. print ("Enterm; ");
             int m = input next(nt();
```

```
System.out.print (" Enter n.");

int n = input .next int ();

System.out.print(" Enter k:");

int k = input. next int ();

for (int i=m; i = n; !+=(x+1)) {

System.out.print (i + "");

y

input.close();

}
```

DUTPUT:

Enter m: 50

Enter n: 100

Enter k: 7

50 58 66 74 82 90 98