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Assignment-I

1. write a Program to reverse a coord using Loop? Chat to use pubuilt

```
Import java.util.Scanner;

Public class reversestring{
    Public Staric Void main (String [] array){
    Scanner input= new Scanner (system.in);
    String reversed = " ";
    for int i= name.length()-1; i=>=0; i=-){
        reversed += name Char At(i); }
    System.out.Print (reversed);
    Input.close();}
}
```

Input: temple

output: elpmeT

2. Check entered user name is valid or not

```
Import java.util.scanner;
Public class validate usev name{
    Public Static Void main (String [Jargs){
    Scanner input= new scanner (System in);
    System.out Print ("enter user name:");
```

```
String s: input.nextline();
if(s.equal(s1)){
    System.out.Print("username is valid"):}
    else{
        system.out.Print("user is invalid");}
    Input.close():}
```

Output.

Pra@18

arp@18

→ user name is valid.

3 Reverse a number:

```
Import java.util.Scanner:
Public class reversenumber{
    Public static void main (String F args){
        int n=input.nextInt();
        int rev=0;
        while (n!=0){
            rev=rev(0+n%.10;
            n/=10:}
        System.out.Print(rev):
```

```
Input.close();
}
```

Input: 12345

Output: 54321.

A. To find the person is eligible to vote or not.

```
Import java.util.Scanner;
Public class votingeligibility{
    Public static void main(String[]Args){
        Scanner input=new Scanner(System.in);
        System.out.Print("enter your age");
        int age =input.nextint();
        if(age<=0){
            System.ourPrint("enter Above zeroth,");
    else if(age>18){
        System.out.Print("an eligible to vote");}
    else{
        System.out.Print("allowed to vote after"+
                        (18-age)+"years");}
    Input.close();}
}
```

Output:

Enter your age: 21

->eligible to vote.

5. Find LCM and GCD of n numbers.

```
Import java.util.Scanner;
Public class GCD.LCM{
    Static .int gcd (int a, int b){
        return a(b/gcd (a,b));}
    Public static void main (String [Jargs){
     Scanner input :new Scanner (System .in);
    int n = input nextint();
    int gcd =input .nex. int();
    int lcm =gcd;
    for (int i=1; i<n ;i++){
        gcd = gcd (gcd.num);
        System.out .Println ("LCM=" + lcm);
        Input.close();}
}
```

OutPut

GCD = 1

LCM = 276

6. Print right triangle star Pattern:

```
Import Java.util.Scanner:

   Public class right triangle star Patternd
   Public static void main (String[] args){
    Scanner input=new Scanner [System.in]:
int n=input.nextline();
for (int i=1 '.i<=n'; i++){
    for (int j=(;j<=i';j++){
        System.out.Print ("*");}
    Input.close():}
}
```

OutPut: 5

```
*
* *
* * *
* * * *
* * * * *
```

7) Pascal triangle:

```
Import Java.util.Scanner:
   Public class Pascal triangle{
      Public Static void main (String[]args){
         Scanner input.next int()
```

```
Pht  n = input . next int ( ):
for (int i =0 ; i <n; i++) {
    for (int s =0 ; s<n -1-i; s++) {
        System . out . Print (" ") ;}
Pnt a =1;
for (int j=0 ; j < =i ; j++) {
System . out . Print (at " ");
    a = a* (i-s) / (s+1);}
    System . out . Print ln ( ): }
    input . close ( ): }
}
```

output: 5

```
        1
      1   1
    1   2   1
  1   3   3   1
1   4   6   4   1
```

8) write a Program using fuction to calculate Simple Intrest.

```
Import java.util.Scanner

Public static double calculate interest (double Principal, int year, boolean isSenior citizen {
    double rate = isSerior citizen?
Public static void main (String[]args){
    Scanner input = new Scanner (System.in);
    System.out.Print ("Is customer senior (Y/N:");
    boolean senior citizen : input next ();
    equals igore case ("y");
    double interest = calculateInterest,
        (Principal, years, Is senior citizen);
    input.close()}
}.
```

output:

enter Principal amount : 20000

enter no. of years : 3

Is customer senior citizen (Y/N): N

Inter set : 600000

9) even sum of fibonacci:

```
Import java.util.Scanner;
Public class evenfibonaccisum{
Public static void main(String[]args){
int n=input.next int();
int a=0,a2=1,sum=0;
if(i%.2==0)sum+a=a1;
int a3=a1+a2;
a2=a3:}
input.close():}
}
```

Output:

Sum=3

10. Print Numbers from n to 0 by skip k numbers in between.

```
Import java.util.Scanner;

Public class kiNumbers{

    Public Static void main(String [] args){

    Scanner input = new Scanner(System.in)

    int n= Input.nextint();

    Int m=Input.nextint();

    Int k=input.next int();

    for(int i=m;i<=n;i=k+1){

        System.out.Print(i" ");}

    input.Close();}

}
```

INPUT : 50
100
10

Output 50, 58, 66, 74, 82, 90, 98.