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

I/p: ~~Ou~~ TEMPLE O/p: ELPMET.

```
import Java.Util.Scanner;
Class Reverse_String
{
    Public Static Void main (String args[]){
        String ~~str~~ = " ~~TEMPLE~~"
Scanner input = new Scanner (System.in);
String name = input.nextLine();
String empty = " ";
int len = name.length();
for (int i= len-1 ; i>=0 ; i--)
 {
     empty = empty + name .charAt(i);
 }
System.out.Print (empty);
}
}
```

2. Write a Program to Check entered User name is Valid?

```
import Java.Util.Scanner.
class. ValidString {
    Public Static Void main ( String args[]) {
        Scanner input = new Scanner (System.in);
        String S1 = input.nextLine();
        String S2 = input.nextLine();
        if (S1==S2).
            System.out.print ("user name Valid");
        else
            System.out.print ("user name Invalid").
```

3. Write a program to reverse a number using loop?.

```
import Java.Util.Scanner
class reverse
{
    Public Static Void main (Strings args[]) {.
Scanner input = new Scanner (System.In);
int n = input.nextLine();
int rev=0;
while (n!=0).
{
    int rem = n%10;
    rev = rev*10+rem;
    n = n/10;
}.
```

System.out.print(rev);

4. write a program to find whether person is eligible for vote

```
import Java.Util.Scanner
class Vote {
    Public static Void main(String args[]) {
        Scanner input = new Scanner (System.in);
        int age = input.nextInt();
        if (age >18) {
            System.out.Print("You are eligible for Vote");
        else if (age <=0)
            System.out.print("Enter right age")
        else
            System.out.Print("You can Vote after" + (18-age));
```

5. Find Lcm and GCD. of n numbers?

```
impot Java.Util.Scanner;
Public class
{
```

```
Stat Static int gcd (int a, int b).
{
    if (a==0)
        return b;
    return gcd (b%a, a);
}
Static int findgcd (int a[], int n)
{
    int res = a[0];
    for (int i=0; i<n; i++)
    {
        res = gcd (res, a[i]);
        if (res==1)
            return 1;
    }
    return res;

}
Public Static Void main (String[] args)
{
    Scanner input = new Scanner (System.in);
    int n = input. nextInt();
    int a[] = new int[n];
    for (int i=0; i<n; i++).
    {
        a[i] = input. nextInt();

    }
    System.out. Println( findgcd (a,n));
    int gcd = findgcd (a,n);
    int mul = 1;
    for (int i=0; i<n; i++)
    {
```

```
for (int i=0; i<n; i++).
{
        mul = mul * a[i];
}
 int    lcm = mul/gcd;
 System.out. println (lcm);
}
```

6. Write a program to print Right Triangle Star Pattern.

```
import Java. util. Scanner.
class Pattern()
{
    Public Static Void main{

        Scanner input = new Scanner (System.in);
        int n=5;
        for (int i=1; i<=5; i++)
        {
            for (int j=0; j<=n-i; j++)
            {
                System.out. print (" ");
            }
            for (int k=1; k<=i; k++)
            {
                System. out. Print ("* ");
            }
            System. out: Print ln();
    }
```

7. Write a program to print below pattern

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

```
import Java.util.Scanner
class triangle {
    Public Static Void main (String args[])
    {
        Scanner input = new Scanner (System.in);
        int n= input.nextInt();
        for (int i=1; i<=n; i++)
        {
            int a=1;
            for (int s=1; s<=n-i; s++)
            {
                System.out.print (a+" ");
                a= a*(i-j)/j;
            }
            System.out.println();
```

8. Write a program using function to calculate simple intrest.

```
import Java.util.Scanner
class discount {
    Public Static Void main (String, args[])
    {
        Scanner input = new Scanner (System.in);
```

```
int pri = input.nextInt();
int year = input.nextInt();
char age = input.next().charAt(0);
double interest = 0.0;
if (age == 'y')
{
        interest = (pri * year * 0.12)/100;
        System.out.print(interest);
}
else
{
        interest = (pri * year * 0.1)/100;
        System.out.print(interest);
}.
```

. Java Program to Find Sum of Fibonacci series Till number N?

```
import Java.util.Scanner
class Fibbonacci
{
    Public Static void main(String args[]).
    {
        Scanner input = new Scanner(System.in)
        int n = input.nextInt();
        int a1=0, a2=1, a3;
        int a[] = new int[50];
        for (int i=0; i<10; i++)
        {
            a[i] = a1;
```

```
System.out.print(a[i] + " ");
a3 = a1+a2;
a1 = a2;
a2 = a3;
}
int sum=0;
for (int i=0 ; i<n*2, i= i+2 )
{
    sum= sum+ a[i]
}
System.out.println("\n sum:" + sum);
```

10. Write program to print numbers from M to N by skipping K numbers in between?

```
import java.util.Scanner.
class Arithmetic
{
    public static void main (String args[])
    {
        Scanner input = new Scanner (System.in);
        int m=input.nextInt();
        int n = input.nextInt();
        int k= input.nextInt();
        for (int i=m, i<=n; i= i+k+1)
        {
            System.out.print (i+" ");
        }
```