

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

```
class Scanner;  
Public Static Void main (String[] args) {  
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);
```

input :
Temple
Output :
elpmET

2. Write a program to check the Entered user name is valid or not.

```
class Scanner;  
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");
```

Input:
Savetha@4019
Output:
Valid username.

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

```
Class Scanner;  
    Public Static void main (String [], args) {  
        Scanner input = new Scanner (System.in);  
        int n = input.next int();  
        int rev = 0;  
        While (n != 0)  
        {  
            int rem = n % 10;  
            rev = rev * 10 + rem;  
            n = n / 10;  
        }  
        System.out.print (rev);  
    }
```

Input:

123

Output:

321

4. Write a program to find whether the person is Eligible for vote or not And if that particular person is not Eligible then print how many year's.

```
Scanner input = new Scanner (System.in);  
int age = input.next int();  
if (age > 18)  
    System.out.print ("you are Eligible for Vote");  
Else if (age < 0)  
    System.out.print ("Enter the age (correctly)");  
Else  
    System.out.print ("you are allowed to Vote after" +  
        (18 - age));
```

Input:

18

Output:

You are Eligible for Vote.

5. Find the LCM and GCD of n numbers?

```
import java.util.Scanner;
```

```
public class ac
```

```
{
```

```
    static int gcd (int a, int b)
```

```
        if (a == 0)
```

```
            return b;
```

```
        return gcd (b % a, a);
```

```
    }
```

```
    static int find gcd (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();
```

~~Input:~~

```
        int int a[] = new int [n];
```

~~Output:~~

```
        for int a[] = new int [n];
```

```
        for for (int i = 0; i < n; i++)
```

```
        {
```

```
            a[i] = input.nextInt();
```

```
        }
```

```
        System.out.println (lcm);
```

```
    }
```

```
}
```

Input:

16, 20

Output:

LCM = 80

GCD = 4

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

```

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

```

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.println();
}

```

Input:

n = 5

Output:

```

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

7. Write a program to print the below pattern:

```

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

Class Scanner {

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.printer("");
}
for (int j = 1; j <= i; j++)
{
    System.out.print(a + " ");
    a = a * (i - j) / j;
}
System.out.println();
}

```

Output:

```

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

```

8. Write a program using Function to Calculate the Simple Pattern, interest. Support the Customer is a Senior Citizen. He is being offered 12 percent rate of interest;

```

class Scanner;
Scanner input = new Scanner(System.in);
int pri = input.nextInt();
int year = input.nextInt();
char ans = input.next().charAt(0);
double interest = 0.0;
if (ans == 'Y')
{
    interest = (pri * year * 0.12) / 100;
    System.out.print(interest);
}
else
{
    interest = (pri * year * 0.1) / 100;
    System.out.print(interest);
}
}

```

Input:

200000
n

Output:

60000

9. Java program to find Even Sum of Fibonacci Series.

```
input 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("\nsum: " + sum);
```

Input = 4
Output = 33

10. Write a program to print the numbers from m to n by skipping k numbers in between?

```
class Scanner;
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 + " ");
}
}
```

Input:
50, 100, 7

Output:
50, 58, ...