

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

192311634

R.AHREN

CSA0993

24-07-24

```
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.println(empty);
}
```

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.println("user name valid");
    else
        System.out.println("user name invalid");
}
```

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

```
class Scanner;
```

```
Scanner input = new Scanner(System.in);
```

```
int n = input.nextInt();
```

```
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 the person is eligible for vote or not. And if that particular person is not eligible, then print how many years.

```
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 the age correctly");
```

else.

```
System.out.println("you are allowed to vote after" +  
    (18 - age) ;
```

5. Find the Lcm and Gcd of n numbers?

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

```
public class ak
```

```
{  
    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();
```

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

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

```
{  
    arr[i] = input.nextInt();
```

```
}
```

```
System.out.println(hgcd(arr, n));
```

```
int gcd = hgcd(arr, n);
```

```
int mul = 1;
```

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

```
{  
    mul = mul * arr[i];
```

```
}
```

```
int lcm = mul / gcd;
```

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

```
}
```

```
}
```

6. write a program to print Right Triangle star pattern

```
*
```

```
**
```

```
***
```

```
****
```

```
*****
```

```
Scanner input = new Scanner(System.in);
```

```
int n = 5;
```

```
for (int p = 1; p <= 5; p++)
```

```
{
```

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

```
    {
```

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

```
    }
```

```
    for (int k = 1; k <= p; k++)
```

```
    {
```

```
        System.out.print("* ");
```

```
    }
```

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

```
}
```

7. Write a program to print the below pattern;

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

```

8. Write a program using function to calculate the simple pattern, interest. Suppose the customer is a senior citizen. He is being offered 12 percent rate of interest;

Class Scanner;

Scanner input = new Scanner (System.in);

int p, r = 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);
    }
}

```

9. Java program to find Even sum of Fibonacci series.

```

input n = input.nextInt();
int a1 = 0, a2 = 1, a3;
int arr[] = new int[50];
for (int i = 0; i < 10; i++)
{
    arr[i] = a1;
    System.out.print(arr[i] + " ");
    a3 = a1 + a2;
    a1 = a2;
    a2 = a3;
}
int sum = 0;
for (int i = 0; i < n * 2; i = i + 2)
{
    sum = sum + arr[i];
}

```

1.

```
System.out.println ("sum : " + sum);
```

2.

Write a program to print the number 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 + " ");
```

```
}
```