

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

```
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);
```

String: TEMPLE

Output: ELPMET

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

```
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

saveetha @ 789

username Invalid

3.) Write a program to reverse a number using loop:

Number: 14567

Output: 76541

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

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

```
int rev = 0;
```

```
while (n != 0)
```

```
{ int rev = n % 10;
```

```
rev = rev * 10 + n;
```

```
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 left to eligible.

Enter age: 7 Output You are allowed vote after 11 years

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

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

```
if (age > 18)
```

```
System.out . print ("Enter the age for vote");
```

```
else if (age <= 0)
```

```
System.out . print ("Enter the age (correct)");
```

```
else
```

```
System.out . print ("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 a[] = new int [n];
        for (int i = 0; i < n; i++)
        {
            a[i] = input.nextInt();
        }
    }
}
```



```

system.out.println (find god (a, n));
int god = find god (a, n);
for (int i = 0; i < n; i++)
{
    hu = 1 + n * arr[i];
}
int l = nm / god;
system.out.println (kn);

```

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 <= i; j++)
    {

```

```

        system.out.print (" ");
    }

```

```

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

```

```

        system.out.print (" ");
    }

```

```

    system.out.println ();
}

```

7.) Write a program to print the below pattern?

```
1 1 1
1 2 1
```

```
Scanner input = new Scanner (System.in);
int h = input.nextInt();
for (int i = 1; i <= h; i++)
{
    int a = i;
    for (int s = 1; s <= h - i; s++)
    {
        System.out.print(" ");
    }
    for (int j = 1; j <= i; j++)
    {
        out.print(a + " ");
        a = a * (i - j + 1);
    }
    System.out.println();
}
```

8.) Write a program using function to calculate the simple interest. Suppose the customer is a senior citizen the being called 12 percent rate interest.

```
Scanner input = new Scanner (System.in);
int prin = input.nextInt();
int year = input.nextInt();
char age = input.next().charAt(0);
double interest = 0.0;
```

```

if (age == "x")
{
    int age = (max * year * 0.12) / 100;
    system.out.print (int age);
}

```

9. Java program find even sum of fibonacci series

```

int n = input.nextInt();
int u1 = 0, u2 = 1, a3;
int a[] = new int[n];
for (int i = 0; i < n; 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; i = i + 2)
{
    sum = sum + a[i];
}
system.out.print ("n sum : " + sum);

```

20.) Write a program to print the numbers from m to n by skipping numbers in k steps?

```
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 + " ");  
}
```