

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

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```
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:-

Saveetha@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.nextInt();  
        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 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.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);
```

input

16, 20

output:-

LCM = 80

GCD = 4

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

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

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

```
{
```

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

```
}
```

```
System.out.println(hndgcd(a, n));
```

```
int gcd = hndgcd(a, 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 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("\n");
```

```
}
```

input
n=5

output

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

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

```

output:-

```

      1
     1 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. 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 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);
    }

```

Input
200000
3
n

```

    Else
    {
        interest = (pri * year * 0.1) / 100;
        System.out.print (interest);
    }

```

output
60000

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

```

input n = input.nextInt();

```

```

int a1 = 0, a2 = 1, a3;

```

input = 4

```

int arr[] = new int [50];

```

output = 33

```

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];
}

```

?

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

6.

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 + " ");
```

input :- 50, 100, 7

output :- 50, 58, ...

```
}
```