

CSA099 - JAVA PROGRAMMING

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Course code:

①

Write a program to reverse a word?

```
import Java.Util.Scanner;
```

```
Public Class Reverse string
```

```
{ Public static void main (String [Jargs]
```

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

```
String name = input.nextLine();
```

```
String Builder reversed = new String Builder [name].reverse();
```

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

```
}
```

```
}
```

②

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

Input: Sreeetha@789

```
import. Java.util.Scanner;
```

```
public class usu {
```

```
    Public static void main (String [Jargs)
```

```
{
```

```
    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?

input: 14567

Import Java.Util.Scanner;

Public class Reverse

{ 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 n ("Reversed integer : " + rev);

}

}

4.) Write Program to find whether the Person is eligible for Vote or not?

Import Java.Util.Scanner;

Public class ReverseString

{

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 to Vote");

}

```

else, flag > 0 & age <= 18)
{
    System.out.print("You are allowed to vote after " + (18 - age) + " years");
}
else
{
    System.out.print("Enter the age correctly");
}
}
}

```

5) Find the LCM and GCD of n numbers?

NValue = 2

N1 = 16

N2 = 20

import java.math.BigInteger;

public class Lcm-Gcd-Calculator

{

public static void main(String args)

{

BigInteger lcm = BigInteger.ONE;

BigInteger[] number; number

{

lcm = lcm.multiply(number).divide(lcm.gcd(number));

gcd = gcd(number).max(number);

}

System.out.println("LCM = " + lcm);

System.out.println("GCD = " + gcd);

}

}

⑥ Write program to print Right triangle star pattern.

input n = 5

Public class Pattern

{

Public static void main [String [], args]

{

int n = 5

for (int i = 1; i <= 5; i++)

{

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

{

System.out.print (" ");

}

for (int k = 0; k <= i; k++)

{

System.out.print (" ");

}

System.out.print ();

}

}

}

Output:

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

⑦ Pattern

Public class Pattern

Public static void main [String [], args]

{

int n = 5, i, j;

for (i = 1; i <= n; i++)

{

```

    system.out.println("a");
}
for(j=1; j<=i; j++)
{
    system.out.print(" ");
    a=a^(i-j)j;
}
system.out.println();
}
}

```

Input	Output
200000	60000.
n	

⑧ Simple Interest

```

Public Class SI
{

```

```

Public Static Void main(String [ ] args)
[
```

```

Scanner input=new Scanner(System.in);
int Pri=200000;
int yr=3;

```

```

char age=input.next().charAt(0);

```

```

double interest=0.0;

```

```

if(age=="Y"){

```

```

interest=(Pri*yr*0.12)/100

```

```

System.out.println(interest);
}
```

```

else {

```

```

interest=(Pri*yr*0.1)/100;

```

```

System.out.println(interest);
}
}
}

```

⑨ Fibonacci Sum:

```

Public Class FibonacciSum{

```

```

Public Static Void main(String [ ] args)
{

```

```

int n=input.nextLine();

```

```

int a1=0, a2=1, a3,

```

```

int a[] = new int[50];
for (int i=0; i<10; i++)
{
    a[i] = a[i];
    System.out.print(a[i] + " ");
    a[i] = a[i] + a[i];
    a[1] = a[2];
    a[2] = a[3];
}
int sum = 0;
for (int i=0; i<n*2; i=i+2)
{
    sum = sum + a[i];
}
System.out.println("sum : " + sum);
}
}

```

input = 4 Output = 33

⑩

Numbers

Public class numbers {

```

    public static void main(String[] args) {
        int m = 50, n = 100, k = 7;
        for (int i = m; i < n; i = i + k + 1)
        {
            System.out.print[i] + " ";
        }
    }
}

```

Input = 50, 100

Output = 50, 58, 66, 74, ...