

① Write a program for Alphabet in reverse order?

Class test-1

Program:-

```
import java.util.Scanner;  
public class reverse {  
    public static void main(String[] args) {  
        String str;  
        Scanner sc = new  
        Scanner(System.in);  
        System.out.print("Enter a string:");  
        str = sc.nextLine();  
        System.out.println("Reverse of a String "+str+" is:");  
        for(int j = str.length(); j > 0; --j)  
        {  
            System.out.print(str.charAt(j-1));  
        }  
    }  
}
```

Input:-

String: TEMPLE (or) Enter a string: TEMPLE

Output:-

Reverse of a string: ELPMET

② Write a program to print Fibonacci series?

Program:-

```
class Fibonacci {  
    public static void main(String args[])  
    {  
        int n1=0, n2=1, n3, i, count=10;  
        System.out.print(n1+" "+n2);  
        for(i=2; i<count; ++i)  
        {  
            n3=n1+n2;  
            System.out.print(" "+n3);  
            n1=n2;  
            n2=n3;  
        }  
    }  
}
```

Output:-

0 1 1 2 3 5 8 13 21 34

③ Write a Java program to Calculate LCM and GCD of a n=2.

Program:-

```
import java.util.*;  
class lcmgcd  
{
```

```

public static void main(String[] args)
{
    int arr[] = {16, 20};
    int lcm = arr[0];
    int gcd = arr[0];
    for (int i = 1; i < arr.length; i++)
    {
        gcd = findGCD(arr[i], lcm);
        lcm = (lcm * arr[i]) / gcd;
    }
    System.out.println("LCM = " + lcm);
    System.out.println("GCD = " + gcd);
}

public static int findGCD(int a, int b)
{
    if (b == 0)
        return a;
    return findGCD(b, a % b);
}
}

```

Input:-

n = 2





number1 = 16

number2 = 20

Output:-

LCM = 80

GCD = 4

	Main.java	  	Output
	<pre>1- import java.util.Scanner; 2- public class reverse { 3- public static void main(String[] args){ 4 String str; 5 char ch; 6 Scanner sc=new Scanner(System.in); 7 System.out.print("Enter a string : "); 8 str=sc.nextLine(); 9 System.out.println("Reverse of a String '"+str+"' is :"); 10- for(int j=str.length()-1;j>0;j--) { 11 System.out.print(str.charAt(j)); 12 } 13 } 14 }</pre>	<pre>java -cp /tmp/bk2fb0Ptj9 reverse Enter a string : TCMPLC Reverse of a String 'TEMPLE' is :ELPMET</pre>	

The screenshot shows an IDE with a file named 'Main.java' open. The code is as follows:

```
1- class Fibonacci{
2- public static void main(String args[])
3- {
4-     int n1=0,n2=1,n3,i,count=10;
5-     System.out.print(n1+" "+n2);
6-
7-     for(i=2;i<count;++i)
8-     {
9-         n3=n1+n2;
10-        System.out.print(" "+n3);
11-        n1=n2;
12-        n2=n3;
13-    }
14- }
15- }
```

The 'Run' button is highlighted in blue. The 'Output' pane on the right shows the command executed: `java -cp /tmp/bk71b0Ptj9 Fibonacci` and the output: `0 11 23 5 8 13 21 34`.

Mein.java



Run

Output

```

1- import java.util.*;
2- class Langed{
3-     public static void main(String[] args){
4-         int arr[]={16,20};
5-         int lcm=arr[0];
6-         int gcd=arr[0];
7-         for(int i=1;i<arr.length;i++){
8-             gcd=findGCD(arr[i],lcm);
9-             lcm=(lcm*arr[i])/gcd;
10        }
11        System.out.println("LCM="+lcm);
12        System.out.println("GCD="+gcd);
13    }
14-    public static int findGCD(int a,int b){
15        if(b==0)
16            return a;
17        return findGCD(b,a%b);
18    }
19 }

```

```
java -cp /tmp/bk2fb0Ptj9 longcd
LCM=80
GCD=4
```