CDAC Hyderabad

PG-DAC March 2023

OOPs With Java

Assignment-1

Name: Tripti Thakur

}

```
1. Write a Java Program to Print Hello World

Ans. class first

{

    public static void main(String[] args)

}

**System.out.println("Hello World");

}

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2. Write a Java Program to Add two numbers/binary numbers/characters.

```
Ans. class add{

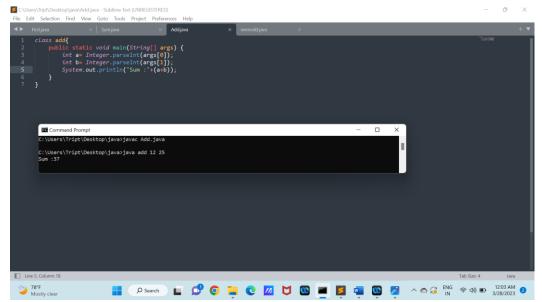
public static void main(String[] args) {

int a= Integer.parseInt(args[0]);

int b= Integer.parseInt(args[1]);

System.out.println("Sum :"+(a+b));

}
```



3. Write a Java Program to Calculate compound interest.

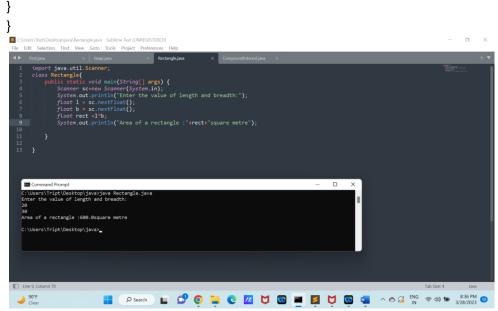
```
Ans.
public class CompoundInterest {
 public static void main (String args[]){
  double principle=2000, rate=4.5, time=2, compound_interest;
  compound_interest = principle * (Math.pow((1 + rate / 100), time)) - principle;
  System.out.println("The Compound Interest is : " + compound_interest);
}
```

4. Write a Java Program to Calculate power of a number.

```
Ans. import java.util.Scanner;
class Power{
   public static void main(String[] args) {
          Scanner sc=new Scanner(System.in);
          int a = sc.nextInt();
          int b = sc.nextInt();
   int power=1;
   for(int i=0;i<b;i++)
          power=power*a;
          System.out.println("Power of a given number :"+power);
```

5. Write a Java Program to Swap two numbers. Ans. import java.util.Scanner; class Swap{ public static void main(String[] args) { Scanner sc=new Scanner(System.in); System.out.println("Enter the value of a and b:"); int a = sc.nextInt(); int b = sc.nextInt(); System.out.println("before swapping:"+a+" "+b); int temp=0; temp=a; a=b; b=temp; System.out.println("After swapping number:"+a+" "+b); } 6. Write a Java Program to Calculate area of rectangle. Ans. import java.util.Scanner; class Rectangle{ public static void main(String[] args) { Scanner sc=new Scanner(System.in); System.out.println("Enter the value of length and breadth:"); float I = sc.nextFloat(); float b = sc.nextFloat(); float rect =I*b;

System.out.println("Area of a rectangle:"+rect+"square metre");



7. Write a Java Program to Calculate area and circumference of circle using multiple classes. Ans. import java.util.Scanner;

```
public class circle{
    public static void main(String[] args) {
        Scanner sc= new Scanner(System.in);
        System.out.println("Enter radius of a circle:");
        float r=sc.nextFloat();
        float circum=2*(float)Math.PI*r;
        float area = (float)Math.PI*r*;
        System.out.println("circumference of a circle:"+circum);
        System.out.println("Area of a circle:"+area);
```

}

)

```
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city System.out.println("Area of a circle:"sarea);

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C:Users\Tript\Desktop\java>java circle
circumrence of a circle: 59,255884
Area of a circle: 29,255884
Area of a circle: 29,255884

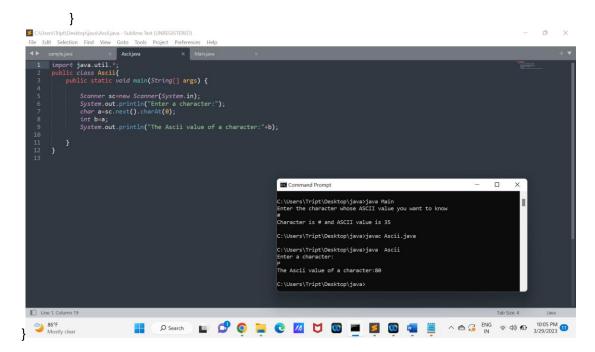
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8. Write a Java Program to find ASCII value of a character. Ans. import java.util.*; public class Ascii{ public static void main(String[] args) {

> Scanner sc=new Scanner(System.in); System.out.println("Enter a character:"); char a=sc.next().charAt(0); int b=a; System.out.println("The Ascii value of a character:"+b);



9. Write a Java Program to Print default values of primitive data type variables.

Ans. public class Primitive {

static boolean a; static int b;

static long c;

static byte d;

static float e;

static double f;

static short g;

```
static char h;
public static void main(String[] args) {
 System.out.println("Default value of boolean Type = " + a);
  System.out.println("Default value of int Type = " + b);
  System.out.println("Default value of long Type = " + c);
  System.out.println("Default value of byte Type = " + d);
  System.out.println("Default value of float Type = " + e);
  System.out.println("Default value of double Type = " + f);
  System.out.println("Default value of short Type = " + g);
  System.out.println("Default value of char Type = " + h);
 }
                                                                                            0
10. Write a Java Program to Swap two variables without using the third variable.
Ans. import java.util.Scanner;
class Swapping{
        public static void main(String[] args) {
                Scanner sc=new Scanner(System.in);
                System.out.println("Enter the value of a and b:");
```

```
int a = sc.nextInt();
                                                                              int b = sc.nextInt();
                                                                              System.out.println("before swapping:"+a+" "+b);
                                                                              a=a+b;
                                                                             b=a-b;
                                                                            a=a-b;
System.out.println("After swapping number :"+a+" "+b);
}}
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11. Write a Java Program to Print Fibonacci series till n times.
Ans. class fibonacci
{
public static void main(String[] args) {
int n=15;
int fib0 =0, fib1 =1;
System.out.println("fibonacci series is:\n");
for(int i=0;i<15;i++){
System.out.println(fib0);
int sum=fib0 + fib1;
fib0=fib1;
```

```
fib1=sum;
}
}
}
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       sample2java x assignmentljava x fibonacci
class fibonacci
{
  public static void main(String[] args) {
    int n=15;
    int fib0 =0, fib1 =1;
    System.out.println("fibonacci series is:\n");
    for(int i=0;1<15;i++){
        System.out.println(fib0);
        int sum=fib0 + fib1;
        fib0=fib1;
        fib1=sum;
    }
}</pre>
         Command Prompt
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            Microsoft Windows [Version 10.0.22000.1455]
(c) Microsoft Corporation. All rights reserved.
            C:\Users\Tript>cd Desktop
            C:\Users\Tript\Desktop>cd java
            C:\Users\Tript\Desktop\java>javac Factorial.java
            C:\Users\Tript\Desktop\java>java Factorial
Enter a number
            16
Factorial of a number =2004189184
            C:\Users\Tript\Desktop\java>java Factorial
Enter a number
 Line 2, Column 1
                                                                                                                                        Tab Size: 4 Java
```