Java Lab Program

1. Write a program to print "Hello Anand" in Java.

```
import java.lang.*;
class First
         public static void main(String arg[])
                  System.out.print("Hello Anand");
                  > This PC → Local Disk (C:) → Program Files > Java > jdk-17 > bin >
                                                            Туре
                                        3/9/2022 2:57 PM
                                                            JAVA File
                                                                                    1 KB
   First.class
                                        3/9/2022 2:57 PM
                                                            CLASS File
                                                                                    1 KB
  C:\Windows\System32\cmd.exe
 Microsoft Windows [Version 10.0.19044.1526]
(c) Microsoft Corporation. All rights reserved.
  C:\Program Files\Java\jdk-17\bin\Java Lab>javac 1.java
  C:\Program Files\Java\jdk-17\bin\Java Lab>java First
  C:\Program Files\Java\jdk-17\bin\Java Lab>
```

2. Write a program to print Command Line Arguments in Java.

import java.lang.*;

```
class Second
        public static void main(String arg[])
                 System.out.println("We are learning Command Line Arguments");
                System.out.println(arg[0]);
                 System.out.println(arg[1]);
                System.out.println(arg[2]);
        }
                  This PC > Local Disk (C:) > Program Files > Java > jdk-17 > bin > Java Lab
 Name
                                     Date modified
                                                        Туре
  🔳 2.java
                                     3/9/2022 3:06 PM
                                                        JAVA File
                                     3/9/2022 3:07 PM
                                                        CLASS File
  Second.class
  C:\Windows\System32\cmd.exe
 Microsoft Windows [Version 10.0.19044.1526]
(c) Microsoft Corporation. All rights reserved.
 C:\Program Files\Java\jdk-17\bin\Java Lab>javac 2.java
 C:\Program Files\Java\jdk-17\bin\Java Lab>java Second Manish AI 101
 Hello Anand, we are learning Command Line Arguments
 Manish
 101
```

3. Write a program to perform simple addition of two numbers in Java. import java.lang.*; class Third public static void main(String arg[]) { int a=10; int b=20; int c=a+b; System.out.println("Addition is:" + c); } } 📑 > This PC > Local Disk (C:) > Program Files > Java > jdk-17 > bin > Java Lab Name Date modified Size Type 3.java 3/9/2022 3:12 PM JAVA File Third.class 3/9/2022 3:13 PM **CLASS File** C:\Windows\System32\cmd.exe Microsoft Windows [Version 10.0.19044.1526] (c) Microsoft Corporation. All rights reserved. C:\Program Files\Java\jdk-17\bin\Java Lab>javac 3.java C:\Program Files\Java\jdk-17\bin\Java Lab>java Third Addition is:30 4. Write a program to take user input using Scanner Class. import java.lang.*; import java.util.Scanner; class Fourth public static void main(String arg[]) { Scanner sc=new Scanner(System.in);

System.out.println("Enter your Name, Age, 10th percentage");

System.out.println("Your expected salary should be:" + salary);

String name=sc.nextLine();

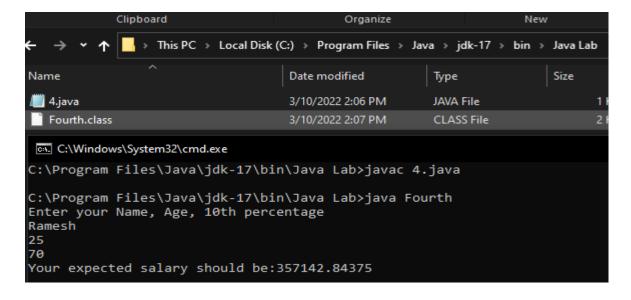
double salary=(age*100)/per;

int age=sc.nextInt();

}

}

float per=sc.nextFloat();



5. Write a program to show Array declaration, instantiation, and initialization.

```
import java.lang.*;
class Fifth
{
    public static void main(String arg[])
    {
        int a[]; //declaration
            a = new int[3]; //instantiation
            a[0]=10; //initialization
            a[1]=11;
            a[2]=12;
        int b[] = {21, 23, 22}; //declaration and initialization
            System.out.println(a[0]+" "+a[1]+" "+a[2]);
            System.out.println(b[0]+" "+b[1]+" "+b[2]);
        }
}
```

```
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Type

5.java
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JAVA F
Fifth.class
3/10/2022 2:26 PM
CLASS

C:\Windows\System32\cmd.exe
C:\Program Files\Java\jdk-17\bin\Java Lab>javac 5.java

C:\Program Files\Java\jdk-17\bin\Java Lab>java Fifth
10 11 12
21 23 22
```

```
6. Write a program to show difference between for-loop and foreach-loop.
   import java.lang.*;
   import java.util.Scanner;
   class Sixth
         public static void main(String arg[])
         {
               Scanner sc = new Scanner(System.in);
               int sum=0, total=0, per=0;
               int a[] = new int[5]; //Array creation
               System.out.println("Please enter marks of 5 subjects");
               for(int i=0; i<5; i++)
               {
                      a[i] = sc.nextInt();
               System.out.print("The sum of your marks is: ");
               for(int j:a)
               {
                      sum = sum+j;
               System.out.println(sum);
               System.out.println("Please enter the Max total marks: ");
               total = sc.nextInt();
               System.out.print("Your calculated percentage is:");
               per=(sum*100)/total;
               System.out.print(per);
         }
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      6.java
      Sixth.class
                                         3/10/2022 2:43 PM
                                                             CLASS
      C:\Windows\System32\cmd.exe
     C:\Program Files\Java\jdk-17\bin\Java Lab>javac 6.java
     C:\Program Files\Java\jdk-17\bin\Java Lab>java Sixth
     Please enter marks of 5 subjects
     44
     53
     44
     34
     60
     The sum of your marks is: 235
     Please enter the Max total marks:
     300
```

```
7. Write a program to show 2D array operation.
  import java.lang.*;
  class Seventh
         public static void main(String arg[])
         {
               int a[][] = {{1,2,3}, {4,5,6}}; //2D Array declaration and initialization
               System.out.println("The 2D array elements are:");
               for(int i=0; i<2; i++)
                     for(int j=0; j<3; j++)
                     {
                           System.out.print(a[i][j]+" ");
               System.out.println();
         }
     7.java
                                          3/10/2022 3:03 PM
                                                                JAVA File
     Seventh.class
                                          3/10/2022 3:03 PM
                                                                CLASS File
     C:\Windows\System32\cmd.exe
    C:\Program Files\Java\jdk-17\bin\Java Lab>javac 7.java
    C:\Program Files\Java\jdk-17\bin\Java Lab>java Seventh
    The 2D array elements are:
    1 2 3
    4 5 6
```