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TERM WORK

ON

JAVA PROGRAMING

LANGUAGE

(PCS 308)

2021-22

SUBMITTED TO: SUBMITTED BY:

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GRAPHIC ERA HILL UNIVERSITY, DEHRADUN

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**DEPARTMENT OF CSE**

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**STUDENT LAB REPORT SHEET**

**Name of Student .................................................... Mob. No ......................................**

**Address Permanent .....................................................................................................**

**Father’s Name ........................... Occupation ...................... Mob. No .........................**

**Mother’s Name ........................... Occupation ...................... Mob. No .......................**

**Section ............ Branch ............ Semester ............ Class Roll No ............ Grade A B C**

**Local Address ................................... Email ............................................ Marks 5 3 1**

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| **S.N**  **o.** | **Practical** | **D.O.P.** | **Date of Submiss**  **ion** | **Grade (Viva)** | **Grade**  **(Report**  **File)** | **Total**  **Marks**  **(out of**  **10)** | **Student’s Signature** | **Teacher’s Signatur**  **e** |
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**PRACTICAL 1**

Create a class “Student” having following instance variables and methods.

Instance variables : ID, Name, Branch and University.

**Method:** setDetails() and showDetails().

The setDetails() method sets the values of ID, Name, Branch and University.

And showDetails() method shows the values of each field.

**CODE :**

class Student{

int ID;

String name;

String Branch;

String University;

void setDetails(int r, String n, String br, String un)

{

name = n;

ID = r;

Branch = br;

University = un;

}

void showDetails() {

System.out.println("Name : "+name);

System.out.println("ID : "+ID);

System.out.println("Branch : "+Branch);

System.out.println("University : "+University);

}

public static void main(String[] args)

{

Student Details = new Student();

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

String n=args[1];

String br=args[2];

String un=args[3];

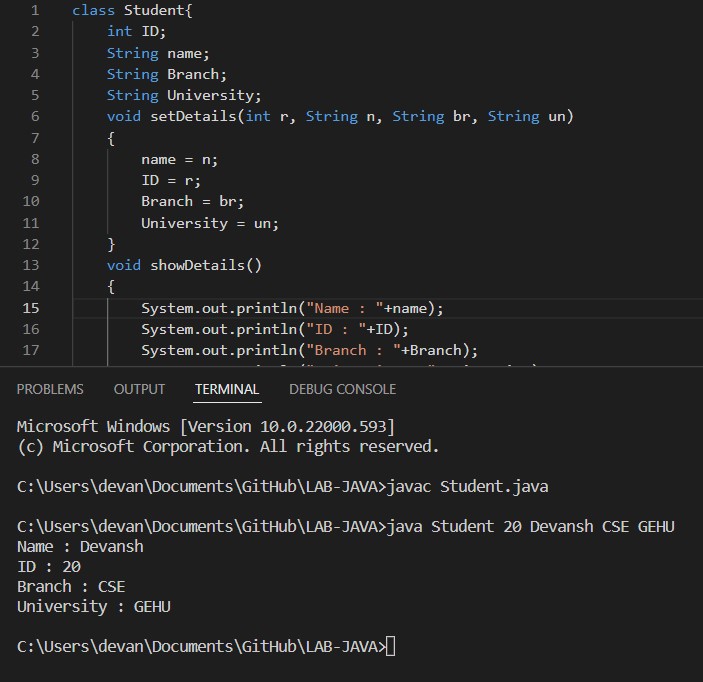
Details.setDetails(r,n,br,un);

Details.showDetails();

}

}

**OUTPUT :**



PRACTICAL 2

Write a JAVA Program to demonstrate the working of a banking – system.

**Instance variables :** name, account\_no, amount.

**Instance methods :**  deposit(), withdraw(), checkBalance(), insert(), and display().

Here we can deposit and withdraw amount from our account using deposit() and withdraw() methods respectively.

The insert() methods to initialize state and display() method is to display state values.

**CODE :**

public class Bank {

int account\_no;

String name;

int amount;

void insert(int account\_no, String name, int amount)

{

this.account\_no = account\_no;

this.name = name;

this.amount = amount;

}

void deposit(int amount)

{

this.amount += amount;

}

void withdraw(int amount)

{

if(this.amount >= amount)

{

System.out.println("Money withdrawn : "+amount);

this.amount -= amount;

System.out.println("Amount remaining :"+this.amount);

}

else{

System.out.println("Low Balance");

}

}

void display()

{

System.out.println("Name : "+this.name);

System.out.println("Account Number : "+this.account\_no);

System.out.println("Account Balance : "+this.amount);

}

public static void main(String args[])

{

Bank obj = new Bank();

obj.insert(20000,"Devansh Rautela",100000);

obj.display();

obj.withdraw(200000);

obj.display();

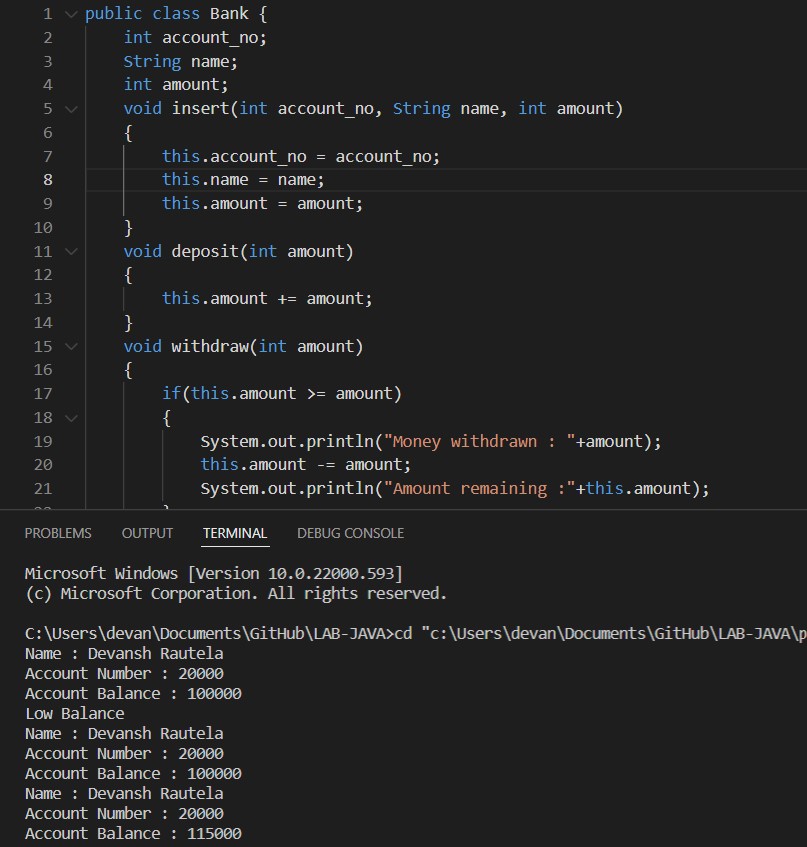
obj.deposit(15000);

obj.display();

}

}

**OUTPUT :**



**PRACTICAL 3**

Write a Program to sum two numbers. Here inputs are provided through command line arguments.

**CODE :**

public class sum

{

public static void main(String[] args)

{

int n1 = Integer.parseInt(args[0]);

int n2 = Integer.parseInt(args[1]);

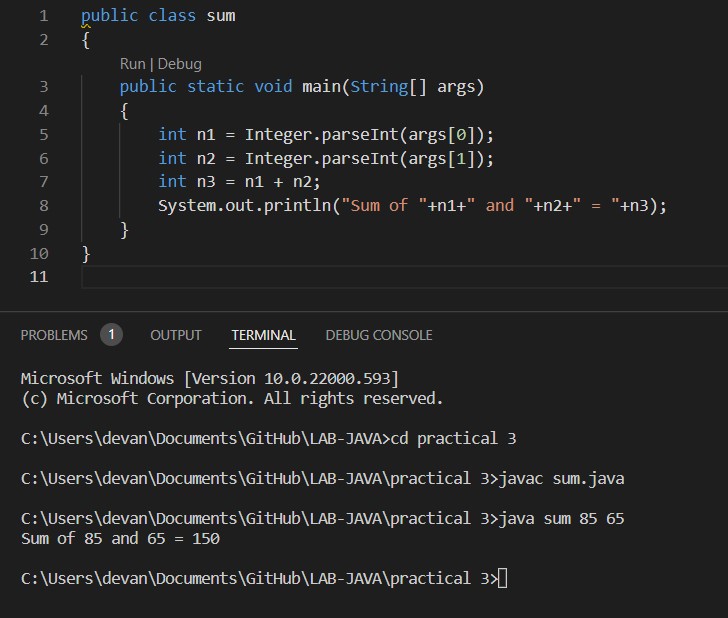
int n3 = n1 + n2;

System.out.println("Sum of "+n1+" and "+n2+" = "+n3);

}

}

**OUTPUT :**

****

**PRACTICAL 4**

Create class Employee with following attributes and methods ID, name, department and salary.

This setDetails() method sets the values of ID, name, department, and salary.

And showDetails() method shows the value of each field.

**Note :**

1. Values must be entered through Scanner class.
2. Use proper constructor.
3. Use “this” reference variables to avoid ambiguity.

**CODE :**

public class Employee {

int ID;

String name;

String department;

int salary;

Employee(int ID, String name, String department, int salary)

{

this.ID = ID;

this.name = name;

this.department = department;

this.salary = salary;

}

void setDetails(int r, String na, String br, int un)

{

name = na;

ID = i;

department = dp;

salary = s;

}

void display()

{

System.out.println("Name : "+name);

System.out.println("Roll no. : "+ID);

System.out.println("Department : "+department);

System.out.println("Salary : "+salary);

}

public static void main(String args[])

{

Employee xyz = new Employee(0, "", "", 0);

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

String na = args[1];

String dp = args[2];

int s = Integer.parseInt(args[3]);

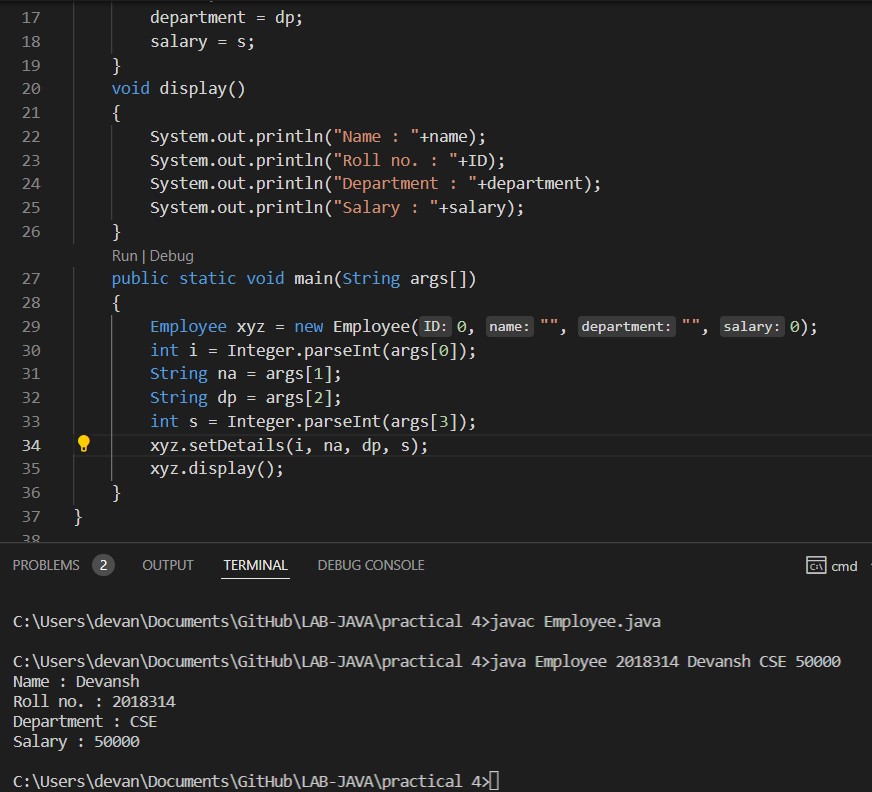
xyz.setDetails(i, na, dp, s);

xyz.display();

}

}

**OUTPUT :**

****

**PARCTICAL 10**

Create a jagged array having three rows. Where 1st row contains 3 columns, 2nd row contains 4 columns and 3rd row contains 2 columns. Insert and traverse it.

**CODE :**

**import java.io.InputStream;**

**import java.util.\*;**

**public class jagged {**

**public static void main(String[] args)**

**{**

**int arr1[][] = new int[3][];**

**arr1[0]=new int[3];**

**arr1[1]=new int[4];**

**arr1[2]=new int[2];**

**Scanner sc = new Scanner(System.in);**

**for(int i=0; i<arr1.length; i++) //input**

**{**

**for(int j=0; j<arr1[i].length; j++)**

**{**

**arr1[i][j]=sc.nextInt();**

**}**

**}**

**for(int i=0; i<arr1.length; i++) //display**

**{**

**for(int j=0; j<arr1[i].length; j++)**

**{**

**System.out.print(arr1[i][j]+" ");**

**}**

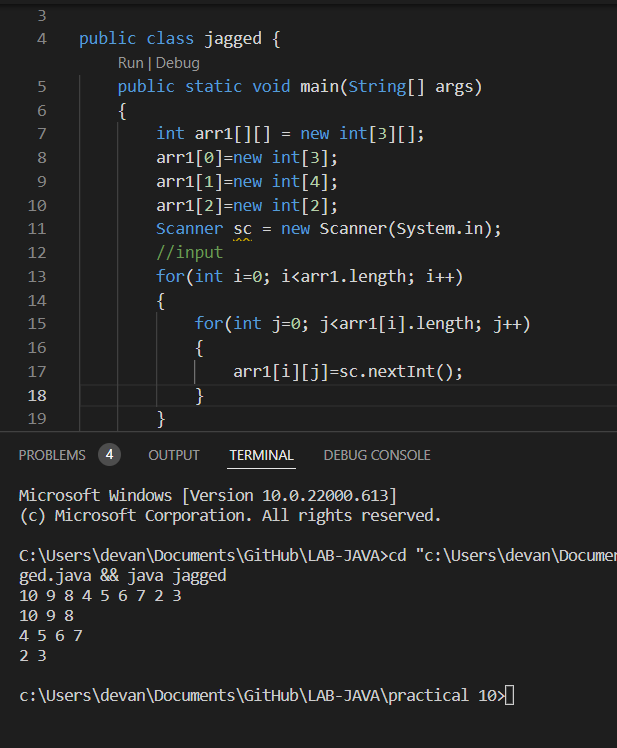
**System.out.println("");**

**}**

**}**

**}**

**OUTPUT :**

****