Lab Based Assignment - Class & Object

Write a program which demonstrate the concept of class and object

The program consists of two classes.



Program:

**package** learning;

**public** **class** AmritaMCABatch {

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

/\*

\* Here Student is the class and firstStudent & secondStudent are objects and they represent

\* the instance created from student class

\*/

Student firstStudent = **new** Student("ABC.HH.MCA.2022.1406", "Varun" , "Roy");

firstStudent.setBatch("July 2022");

Student secondStudent = **new** Student("ABC.HH.MCA.2022.1407", "Anita" , "M");

secondStudent.setBatch("July 2022");

firstStudent.printDetails();

secondStudent.printDetails();

**if**(firstStudent!=secondStudent)

{

System.***out***.println("firstStudent & secondStudent refer to two different objects");

}

**if**(firstStudent.getClass()==secondStudent.getClass())

{

System.***out***.println("firstStudent & secondStudent are objects of same class");

}

}

}

**package** learning;

**public** **class** Student {

**private** String rollNumber;

**private** String firstName;

**private** String lastName;

**private** String batch;

**public** Student(String rollNumber, String firstName, String lastName) {

**super**();

**this**.rollNumber = rollNumber;

**this**.firstName = firstName;

**this**.lastName = lastName;

}

**public** **void** printDetails()

{

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

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

System.***out***.println("Student Name : " + getFirstName() + " " + getLastName());

System.***out***.println("Roll Number : " + getRollNumber());

System.***out***.println("Batch : " + getBatch());

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

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

}

**public** String getRollNumber() {

**return** rollNumber;

}

**public** **void** setRollNumber(String rollNumber) {

**this**.rollNumber = rollNumber;

}

**public** String getFirstName() {

**return** firstName;

}

**public** **void** setFirstName(String firstName) {

**this**.firstName = firstName;

}

**public** String getLastName() {

**return** lastName;

}

**public** **void** setLastName(String lastName) {

**this**.lastName = lastName;

}

**public** String getBatch() {

**return** batch;

}

**public** **void** setBatch(String batch) {

**this**.batch = batch;

}

}

Screen shot of program execution:

Graphical user interface, text, application

Description automatically generated