LAB_ANP_C6339_CLASSES_OBJECTS

Due date: Sunday, 24 October 2023, 5:30 AM
Maximum number of files: 1
Type of work: Individual work
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Assignment-1.

● Create a class Student in Student.java then add member variables studentName, collegeName of type String

● Add a member variable studentID of type int.

● Make all the member variables as private.

● Add a main method. And print a message "Successful".

● Compile the class

● Run the class (Follow Coding convention)

Solution:-

public class Student {

  // Private variables to store the student's name, college name, and student ID

  private String studentName = "Lingabathula Thapaswi"; // Student name

  private String collegeName = "Kakatiya University College of Engineering and Technology"; // College name

  private int studentID = 950; // Student ID

  // Public static main method to print "Successful" to the console

  public static void main(String[] args) {

    System.out.println("Successful");

  }

}

Output:

```
C:\Users\thila\OneDrive\Desktop\Anudip_Labs>javac Student.java

C:\Users\thila\OneDrive\Desktop\Anudip_Labs>java Student
Successful
```

Assignment-2.

● Create a new class Employee

● Add member variables: id and age of type int, name of type String and isPermanent of type boolean

● Now assign values 35.5 to age; See the error message.

- How can you avoid this error? Correct the error by casting.

- Make all the members protected

- Add a main method to it. Print message "Successfully started".

- Compile the class.

```java
public class Employee {

    protected int id;

    protected String name;

    protected int age;

    protected boolean isPermanent;


    public Employee(int id, String name, int age, boolean isPermanent) {

        this.id = id;

        this.name = name;

        this.age = age;

        this.isPermanent = isPermanent;

    }


    public void printDetails() {

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

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

        System.out.println("Employee Age: " + age);

        System.out.println("Employee isPermanent: " + isPermanent);

    }


    public static void main(String[] args) {

        // To avoid the error, cast the value to int before assigning it to the age variable.

        Employee emp = new Employee(1, "Rama", (int) 25.5, true);

        emp.printDetails();


        // Successfully started

        System.out.println("Successfully started");
```

```
    }
}
```

Output:

```
C:\Users\thila\OneDrive\Desktop\Anudip_Labs>javac Employee.java

C:\Users\thila\OneDrive\Desktop\Anudip_Labs>java Employee
Employee ID: 1
Employee Name: Rama
Employee Age: 25
Employee isPermanent: true
Successfully started
```