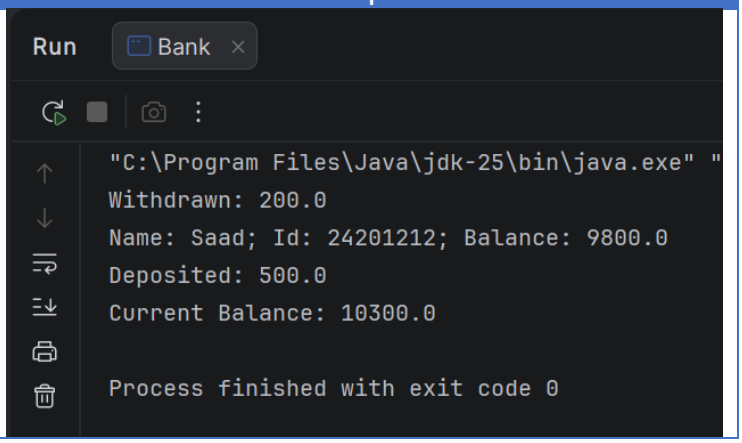
# Problem#1

```
public class BankAccount {
   String name;
   String id;
   double balance;
   public BankAccount(String name, String id, double
balance){
      this.name = name;
      this.id = id;
      this.balance = balance;
   }
   public void deposit(double depAmount){
      if(depAmount > 0){
         balance += depAmount;
         System.out.println("Deposited: " +depAmount);
      }
   }
   public void withdraw (double withAmount){
      if(withAmount > 0 && withAmount <= balance){
         balance -= withAmount;
         System.out.println("Withdrawn: " +withAmount);
      }else{
         System.out.println("Insufficient balance!");
      }
   }
   public double getBalance(){
      return balance;
   }
   public void displayInfo(){
      System.out.println("Name: " + name + "; Id: " + id +
"; Balance: " + balance);
   }
}
```

```
public class Bank {
   public static void main(String[] args){
      BankAccount account = new BankAccount("Saad",
"24201212",10000);
      account.withdraw(200);
      account.displayInfo();
      account.deposit(500);
      System.out.println("Current Balance: "
+account.getBalance());
   }
}
```

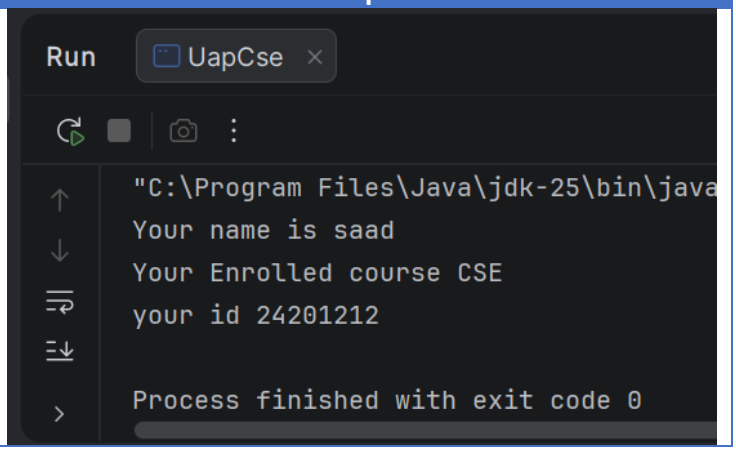
| Input | Output |
| --- | --- |
| |  |

## Problem#2

```
import java.sql.Struct;

public class Student {
      String name;
      String id;
      String enrolledCourse;
      public Student(){
      }
      public Student(String name,String id){
         this.name = name;
         this.id = id;
      }
      public void enrolledCourse(String
enrolledCourse){
         this.enrolledCourse = enrolledCourse;
      }
      public void displayInfo(){
         System.out.println("Your name is " +name);
         System.out.println("Your Enrolled course "
+enrolledCourse);
         System.out.println("your id " +id);
      }
}
```

```
public class UapCse {
   public static void main(String[] args){
      Student std1 = new
Student("saad","24201212");
      std1.enrolledCourse("CSE");
      std1.displayInfo();
   }
}
```

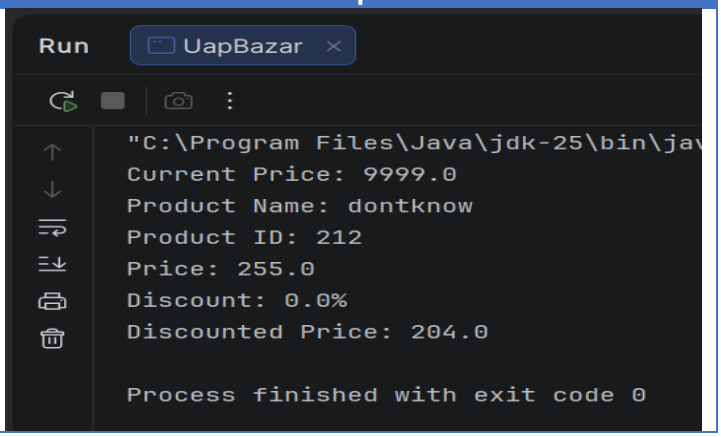
| Input | Output |
| --- | --- |
| |  |

## Problem#3

```
public class Product {
   String name;
   int id;
   double price;
   double discountPercentage;
   public Product(String name, int id, double price, double
discountPercentage) {
      this.name = name;
      this.id = id;
      this.price = price;
      this.discountPercentage = discountPercentage;
   }
   public void updatePrice(double newPrice) {
      price = newPrice;
   }
   public double getPrice() {
      return price;
   }
   public void setDiscountPercentage(double discPercentage) {
      discountPercentage = discPercentage;
   }
   public double getDiscountedPrice() {
      return price - (price * discountPercentage / 100);
   }
   public void displayInfo() {
      System.out.println("Product Name: " +name);
      System.out.println("Product ID: " +id);
      System.out.println("Price: " +price);
      System.out.println("Discount: " +discountPercentage +
"%");
   }
}
```

```
public class UapBazar {
      public static void main(String[] args) {

         Product product = new
Product("dontknow", 212, 9999, 0);
         System.out.println("Current Price: "
+product.getPrice());
         product.updatePrice(255);
         product.displayInfo();
         product.setDiscountPercentage(20);
         double discountedPrice =
product.getDiscountedPrice();
         System.out.println("Discounted
Price: " +discountedPrice);
      }
}
```

| Input | Output |
| --- | --- |
| |  |