LAB_ANP_C6339_METHODS

Due date: Tuesday, 14 November 2023, 5:30 AM

Maximum number of files: 1 Type of work: Individual work Lingabathula Thapaswi[AF0339471]

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Assignment-1.
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class name: Product data members: prdid, prddescription, batchcode, price, profit; method: addproduct() with args assign the values to datamembers and display to user(with args and no return value) calculate_profit() if price>=10000 and <=100000 profit is 10% on price if price between 100000 to 500000 profit is 15% on price

```
if price is >500000 profit is 20% on price (with return type and no args)
Solution:-
import java.util.Scanner;
public class Product {
  private int prdid;
  private String prddescription;
  private String batchcode;
  private double price;
  private double profit;
  public Product(int prdid, String prddescription, String batchcode, double price) {
    this.prdid = prdid;
    this.prddescription = prddescription;
    this.batchcode = batchcode;
    this.price = price;
    this.profit = 0;
  }
```

public void addproduct() {

```
System.out.println("Product ID: " + prdid);
    System.out.println("Product Description: " + prddescription);
    System.out.println("Batch Code: " + batchcode);
    System.out.println("Price: " + price);
  }
  public double calculate_profit() {
    if (price >= 10000 && price <= 100000) {
      profit = price * 0.1;
    } else if (price > 100000 && price <= 500000) {
      profit = price * 0.15;
    } else if (price > 500000) {
      profit = price * 0.2;
    }
    return profit;
  }
  public static void main(String[] args) {
    Product product1 = new Product(1, "Product 1", "Batch 1", 100000);
    product1.addproduct();
    System.out.println("Profit: " + product1.calculate_profit());
        Product product2 = new Product(2, "Product 2", "Batch 2", 500000);
    product2.addproduct();
    System.out.println("Profit: " + product2.calculate_profit());
        Product product3 = new Product(3, "Product 3", "Batch 3", 600000);
    product3.addproduct();
    System.out.println("Profit: " + product3.calculate_profit());
  }
/*public class Product {
```

}

```
private int prdid;
private String prddescription;
private String batchcode;
private double price;
private double profit;
public Product(int prdid, String prddescription, String batchcode, double price) {
  setProdid(prdid);
  setPrdDescription(prddescription);
  setBatchcode(batchcode);
  setPrice(price);
  setProfit(0);
}
public void setProdid(int prdid) {
  this.prdid = prdid;
}
public int getProdid() {
  return prdid;
}
public void setPrdDescription(String prddescription) {
  this.prddescription = prddescription;
}
public String getPrdDescription() {
  return prddescription;
}
public void setBatchcode(String batchcode) {
  this.batchcode = batchcode;
}
```

```
public String getBatchcode() {
  return batchcode;
}
public void setPrice(double price) {
  this.price = price;
}
public double getPrice() {
  return price;
}
public void setProfit(double profit) {
  this.profit = profit;
}
public double getProfit() {
  return profit;
}
public void addproduct() {
  System.out.println("Product ID: " + getProdid());
  System.out.println("Product Description: " + getPrdDescription());
  System.out.println("Batch Code: " + getBatchcode());
  System.out.println("Price: " + getPrice());
}
public double calculate_profit() {
  if (getPrice() >= 10000 && getPrice() <= 100000) {
    setProfit(getPrice() * 0.1);
  } else if (getPrice() > 100000 && getPrice() <= 500000) {
    setProfit(getPrice() * 0.15);
  } else if (getPrice() > 500000) {
    setProfit(getPrice() * 0.2);
```

```
}
    return getProfit();
  }
  public static void main(String[] args) {
    Product product1 = new Product(1, "Product 1", "Batch 1", 100000);
    product1.addproduct();
    System.out.println("Profit: " + product1.calculate_profit());
       Product product2 = new Product(2, "Product 2", "Batch 2", 500000);
    product2.addproduct();
    System.out.println("Profit: " + product2.calculate_profit());
       Product product3 = new Product(3, "Product 3", "Batch 3", 600000);
    product3.addproduct();
    System.out.println("Profit: " + product3.calculate_profit());
  }
}*/
Output:
C:\Users\thila\OneDrive\Desktop\Anudip_Labs>javac Product.java
```

```
C:\Users\thila\OneDrive\Desktop\Anudip_Labs>java Product
Product ID: 1
Product Description: Product 1
Batch Code: Batch 1
Price: 100000.0
Profit: 10000.0
Product ID: 2
Product Description: Product 2
Batch Code: Batch 2
Price: 500000.0
Profit: 75000.0
Product ID: 3
Product Description: Product 3
Batch Code: Batch 3
Price: 600000.0
Profit: 120000.0
```