Standard Template for Academic Tasks (22232)

Faculty Name and UID: **Girish Kumar**   **UID: 21706**

Student Name: Mitesh Kumar

Academic Task Number: CA-4   **Course code:**   CAP680

Course Title Programme: Programming in JAVA (Lab)   **Maximum Marks: 50**

Academic Task Type: Assignment   **Reg.No_12205399**

Roll No___A05   **Section__D2214 Group _1**

Date of Allotment: 20-Feb-2023   **Last Date of submission:26-Feb-2023**

Set: Odd

Question Number	Question Statement	Course Outcome	Bloom's level	Marks per Question
1	Swati bought 600 shares of stock at a price of Rs.21.77 per share. She must pay her stock broker a 2% commission for the transaction. Construct a program using class, object and methods that the display the following: -The amount paid for the stock alone (without the commission) -The amount of the commission -The total amount paid	CO1	L6	50

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```
public class StockTransaction {

  int numShares;

  double pricePerShare;

  double commissionRate;


  public StockTransaction(int numShares, double pricePerShare, double commissionRate) {

    this.numShares = numShares;

    this.pricePerShare = pricePerShare;

    this.commissionRate = commissionRate;

  }


  public double calculateStockAmount() {

    return numShares * pricePerShare;

  }


  public double calculateCommission() {

    return calculateStockAmount() * commissionRate / 100;
```

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```java
    }


    public double calculateTotalAmount() {

        return calculateStockAmount() + calculateCommission();

    }


    public static void main(String[] args) {

        StockTransaction transaction = new StockTransaction(600, 21.77, 2);

        System.out.println("Amount paid for the stock alone (without the commision): Rs. " + transaction.calculateStockAmount());

        System.out.println("Commission paid to the broker: Rs. " + transaction.calculateCommission());

        System.out.println("Total amount paid: Rs. " + transaction.calculateTotalAmount());

    }

}
```
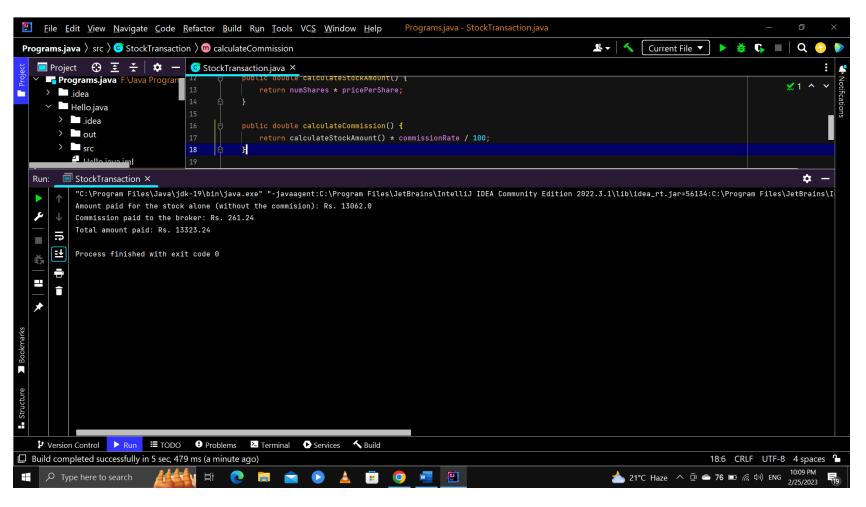
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OUTPUT:


```
12    public double calculateStockAmount() {
13        return numShares * pricePerShare;
14    }
15
16    public double calculateCommission() {
17        return calculateStockAmount() * commissionRate / 100;
18    }
19
```

```
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.3.1\lib\idea_rt.jar=56134:C:\Program Files\JetBrains\I
Amount paid for the stock alone (without the commision): Rs. 13062.0
Commission paid to the broker: Rs. 261.24
Total amount paid: Rs. 13323.24

Process finished with exit code 0
```