Assignment 6:

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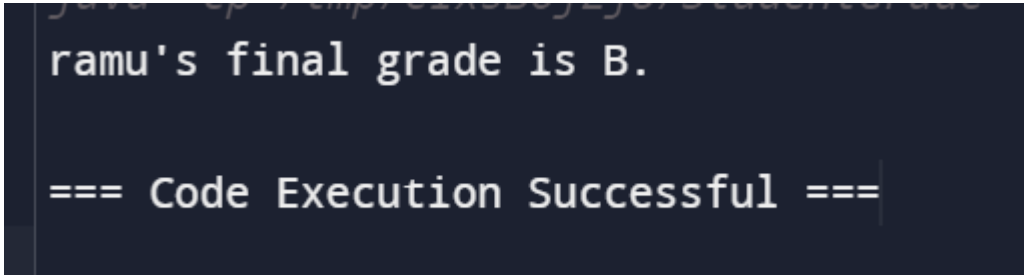
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1. **Calculating the Final Grade:**

```
public class StudentGrade {

    public static void main(String[] args) {

        String studentName = "Alice";

        int assignmentScore = 85;

        int midtermScore = 78;

        int finalExamScore = 92;

        String finalGrade;

        double finalScore = (assignmentScore * 0.3) + (midtermScore * 0.3) +
(finalExamScore * 0.4);

        if (finalScore >= 90)

{

        finalGrade = "A";

    }

else if (finalScore >= 80)

{

        finalGrade = "B";

    }

else if (finalScore >= 70)
```

```java
{

        finalGrade = "C";

    }

else if (finalScore >= 60)

{

        finalGrade = "D";

    }

else

{

        finalGrade = "F";

    }

    System.out.println(studentName + "'s final grade is " + finalGrade + ".");

  }

}
```
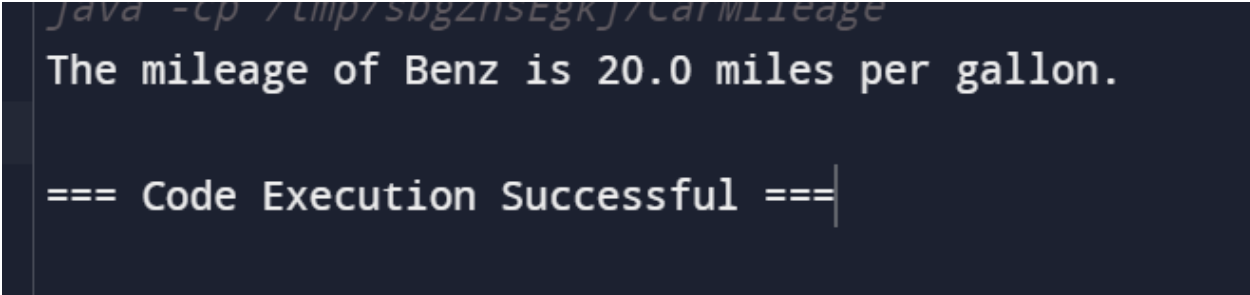
Output:


```
ramu's final grade is B.

=== Code Execution Successful ===
```

2. Calculating the Mileage of a Car:

```java
public class CarMileage
{
    public static void main(String[] args)
    {
        String carModel = "Toyota Camry";
        double distanceTraveled = 300;
        double fuelConsumed = 15;
        double mileage;
        mileage = distanceTraveled / fuelConsumed;


        System.out.println("The mileage of " + carModel + " is " + mileage + " miles per gallon.");
    }
}
```
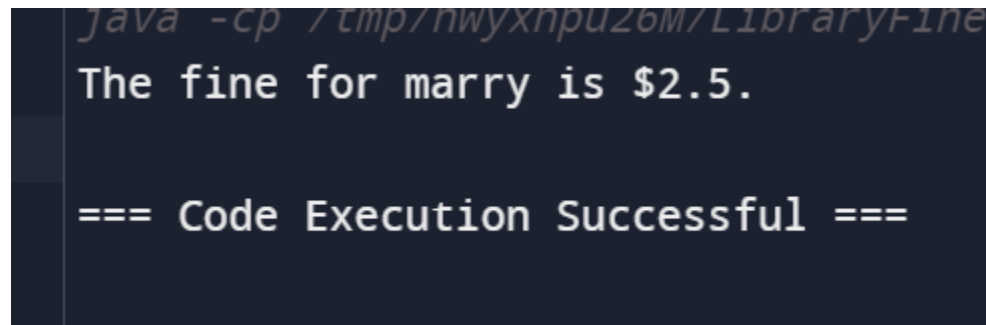
Output:

```
java -cp /tmp/sbgZnsEgkj/CarMileage
The mileage of Benz is 20.0 miles per gallon.

=== Code Execution Successful ===
```

3. Calculating the Fine for Overdue Books:

```java
public class LibraryFine {

    public static void main(String[] args) {

        String bookTitle = "Harry Potter";

        int daysOverdue = 5;

        double finePerDay = 0.50;

        double totalFine;

        totalFine = daysOverdue * finePerDay;

        System.out.println("The fine for " + bookTitle + " is $" + totalFine + ".");

    }

}
```

Output:

```
java -cp /tmp/hwyxhpu26M/LibraryFine
The fine for marry is $2.5.


=== Code Execution Successful ===
```