Assignment 6:

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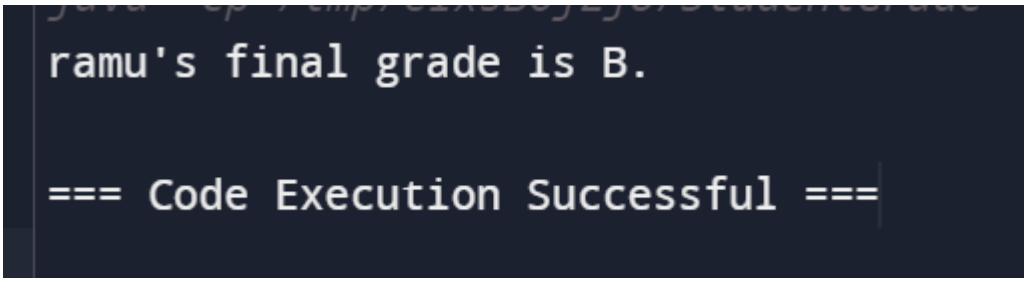
1. Calculating the Final Grade:

```
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)
```

```
{
        finalGrade = "C";
    }
else if (finalScore >= 60)
{
        finalGrade = "D";
    }
else
{
        finalGrade = "F";
    }
    System.out.println(studentName + "'s final grade is " + finalGrade + ".");
  }
}
```

Output:

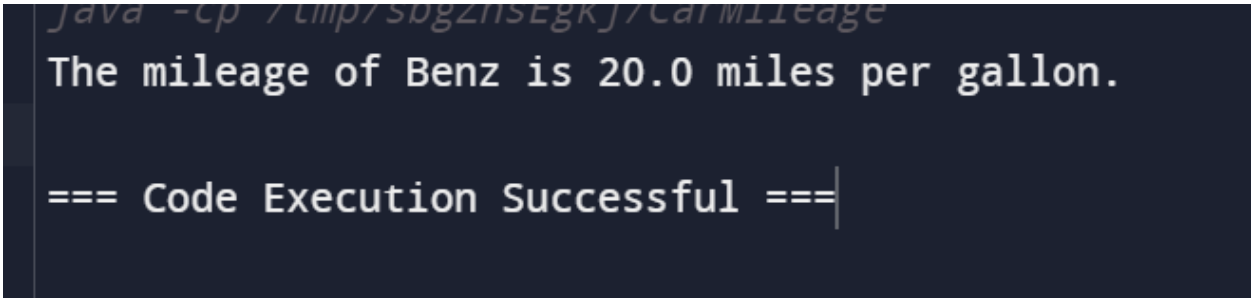


2. Calculating the Mileage of a Car:

```
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:



3. Calculating the Fine for Overdue Books:

```
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: