

Assignment 6:

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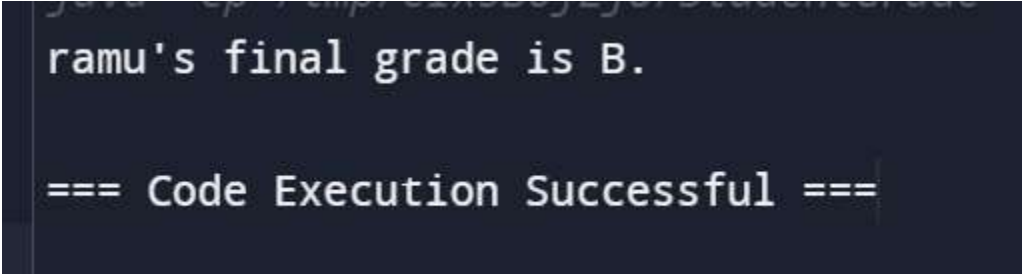
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1. Calculating the Final Grade:

```
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)
```

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

Output:

A screenshot of a code execution environment with a dark background. The text 'ramu's final grade is B.' is displayed in a light-colored monospace font. Below it, the text '=== Code Execution Successful ===' is also displayed in the same font. The text is centered horizontally.

ramu's final grade is B.

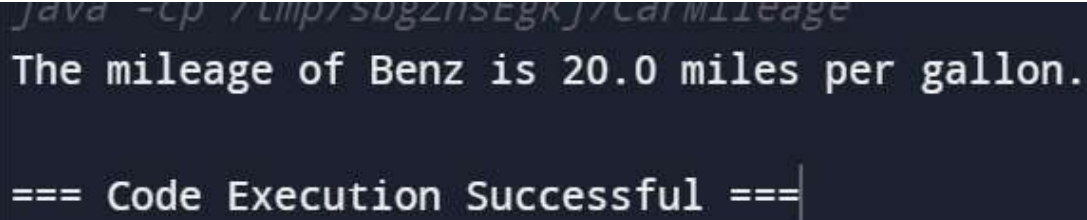
=== Code Execution Successful ===

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:

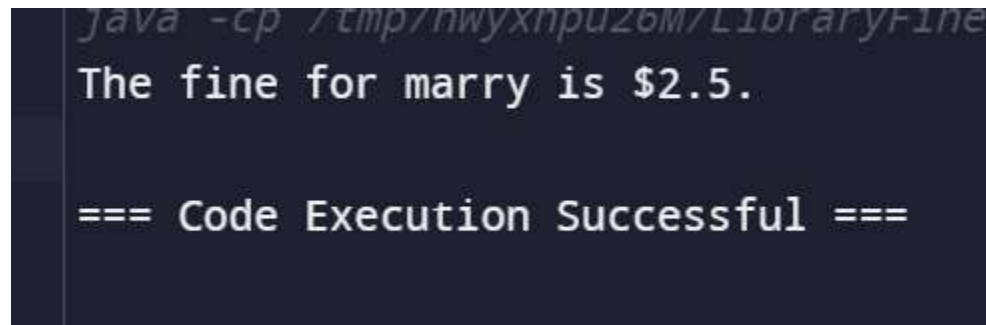
A screenshot of a terminal window with a dark background. The top line shows a command: `java -cp /tmp/5bgznSEgK/CarMileage`. The second line shows the output: `The mileage of Benz is 20.0 miles per gallon.`. The third line shows a success message: `=== Code Execution Successful ===` followed by a cursor.

```
java -cp /tmp/5bgznSEgK/CarMileage
The mileage of Benz is 20.0 miles per gallon.
=== Code Execution Successful ===
```

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:



```
java -cp /tmp/hwyxnpuz6M/LibraryFine  
The fine for marry is $2.5.  
=== Code Execution Successful ===
```