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Batch 31

OOP

Practical 2

Q-1 Typecasting and operators

- : Convert an amount from one currency to another using given exchange rates.
- : double for currency amounts, String for currency codes.
- : Arithmetic operators for conversion calculations.

Code:

```
import java.util.*;
class CurrencyConverter {
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    double amount;
    System.out.println("Enter the amount in INR: ");
    amount = sc.nextDouble();
    double exchangeRateUSD = 82;
    double exchangeRateEUR = 120;
    double usdAmount = amount / exchangeRateUSD;
    double eurAmount = amount / exchangeRateEUR;
    System.out.println("The amount in INR is: " + amount);
    System.out.println("The amount in USD is: " + usdAmount);
    System.out.println("The amount in EUR is: " + eurAmount);
  }
}
```

Q-2

- : Calculate the average grade of a student based on their scores in different subjects.
- : int or double for scores, char for grade letter.
- : Arithmetic operators for calculating the average and conditional operators to assign grades.

Code:

```
import java.util.Scanner;
class StudentGradeCalculator {
   public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter the number of subjects:");
        int numSubjects = scanner.nextInt();
        double totalScore = 0;
        for (int i = 1; i <= numSubjects; i++) {
            System.out.print("Enter score for subject " + i + ":");
            double score = scanner.nextDouble();
            totalScore += score;
        }
}</pre>
```

```
double averageScore = totalScore / numSubjects;
    char grade;
    if (averageScore >= 90) {
       grade = 'A';
    } else if (averageScore >= 80) {
       grade = 'B';
    } else if (averageScore >= 70) {
       grade = 'C';
    } else if (averageScore >= 60) {
       grade = 'D';
    } else {
       grade = 'F';
    System.out.println("Average score: " + averageScore);
    System.out.println("Grade: " + grade);
    scanner.close();
  }
}
```

```
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```