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Enrollment no - 23162121021

Batch 31

OOP

Practical 3

Q-1 Arithmetic operator:-

- : Implement a simple financial calculator that performs basic arithmetic operations (addition, subtraction, multiplication, division) to calculate interest, loan payments, and savings.
- :+,-,*,/

Code:

```
import java.util.Scanner;
public class prac_3 {
  public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter first number: ");
    double num1 = scanner.nextDouble();
    System.out.print("Enter second number: ");
    double num2 = scanner.nextDouble();
    System.out.println("Addition: " + (num1 + num2));
    System.out.println("Subtraction: " + (num1 - num2));
    System.out.println("Multiplication: " + (num1 * num2));
    if (num2 != 0) {
      System.out.println("Division: " + (num1 / num2));
    } else {
      System.out.println("Division: Cannot divide by zero");
    }
    System.out.print("Enter principal amount: ");
    double principal = scanner.nextDouble();
    System.out.print("Enter interest rate (as decimal): ");
```

```
double rate = scanner.nextDouble();
System.out.print("Enter number of years: ");
int years = scanner.nextInt();
double interest = principal * rate * years;
System.out.println("Simple Interest: " + interest);
scanner.close();
}
```

Q-2 Assignment operator:-

• imagine sheela ,leela and mala are 3 good friends sheela have 8 pens, leela have 3 pens and mala have nothing . sheela gave 2 pens to mala, leela gave 2 pens to mala , mala lost 3 pens and one pen gave to sheela , how many pens they have each in their bags, write a java programm using assignment operator

Code:

```
public class prac_3 {
  public static void main(String[] args) {
```

```
int sheelaPens = 8;
    int leelaPens = 3;
    int malaPens = 0;
    sheelaPens -= 2;
    malaPens += 2;
    leelaPens -= 2;
    malaPens += 2;
    malaPens -= 3;
    malaPens -= 1;
    sheelaPens += 1;
    System.out.println("Final pen counts:");
    System.out.println("Sheela: " + sheelaPens + " pens");
    System.out.println("Leela: " + leelaPens + " pens");
    System.out.println("Mala: " + malaPens + " pens");
  }
}
```

```
| Description |
```