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Session1

Project;- Constructing an arithmetic calculator

Project objective:

As a developer, write a program to create an arithmetic calculator.

Background of the problem statement:

As a developer, write a Java code to create a calculator to perform the four basic arithmetic operations (addition, subtraction, multiplication, and division).

Using Switch case :-

```
package com.simplilearn.demo;
import java.util.Scanner;
public class calculator {
    public static void main(String[] args) {

        char operator;
        int num1, num2, result;

        Scanner input = new Scanner(System.in);
        System.out.println("Choose an operator: +, -, *, or /");
        operator = input.next().charAt(0);
        System.out.println("Enter first num");
        num1 = input.nextInt();

        System.out.println("Enter second num");
        num2 = input.nextInt();

        switch (operator) {
            case '+':
                result = num1 + num2;
                System.out.println(num1 + " + " + num2 + " = " + result);
                break;
            case '-':
                result = num1 - num2;
                System.out.println(num1 + " - " + num2 + " = " + result);
                break;
            case '*':
                result = num1 * num2;
                System.out.println(num1 + " * " + num2 + " = " + result);
                break;
            case '/':
                result = num1 / num2;
                System.out.println(num1 + " / " + num2 + " = " + result);
                break;
            default:
                System.out.println("Invalid operator!");
                break;
        }

        input.close();
    }
}
```

```

}
Enter first num
25
Enter second num
35
Choose an operator: +, -, *, or /
*
25 * 35 = 875

```

#### Using if else loop:-

```

package com.simplilearn.demo;

import java.util.Scanner;

public class ifcal {
    public static void main(String[] args) {
        char operator ;
        int num1, num2 , result;
        Scanner sc= new Scanner(System.in);
        System.out.println("Enter first num");
        num1 = sc.nextInt();

        System.out.println("Enter second num");
        num2 = sc.nextInt();

        System.out.println("Choose an operator: +, -, *, or /");
        operator = sc.next().charAt(0);
        if(operator=='+') {
            result = num1 + num2;
            System.out.println(num1 + " + " + num2 + " = " + result);
        }else if(operator=='-') {
            result = num1 - num2;
            System.out.println(num1 + " - " + num2 + " = " + result);
        }
        else if(operator=='*') {
            result = num1 * num2;
            System.out.println(num1 + " * " + num2 + " = " + result);
        }

        else if(operator=='/') {
            result = num1 / num2;
            System.out.println(num1 + " / " + num2 + " = " + result);
        }
    }
}

```

}  
}