

Flow Control

1. Write a program to display the student details(Average>70, Age>21) using if else(Satisfying both condition)

```
import java.util.Scanner;

public class StudentDetails {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter student's average: ");
        double average = scanner.nextDouble();

        System.out.print("Enter student's age: ");
        int age = scanner.nextInt();

        if (average > 70 && age > 21) {
            System.out.println("Student details:");
            System.out.println("Average: " + average);
            System.out.println("Age: " + age);
        } else {
            System.out.println("Student does not meet the criteria.");
        }

        scanner.close();
    }
}
```

2. Write a program to print A for Apple, B for Boy, C for cat, D for Dog, E for Elephant using switch case.

```
import java.util.Scanner;

public class PrintCharacters {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter a character (A-E): ");
        char inputChar = scanner.next().charAt(0);
```

```

switch (inputChar) {
    case 'A':
        System.out.println("A for Apple");
        break;
    case 'B':
        System.out.println("B for Boy");
        break;
    case 'C':
        System.out.println("C for Cat");
        break;
    case 'D':
        System.out.println("D for Dog");
        break;
    case 'E':
        System.out.println("E for Elephant");
        break;
    default:
        System.out.println("Invalid input");
}

scanner.close();
}
}

```

3.Display the number of days in the month for all the months in the year if the months having the same number of days, it must be print together using switch case

```

public class DaysInMonth {
    public static void main(String[] args) {
        int month = 2; // Example: February

        switch (month) {
            case 1:
            case 3:
            case 5:
            case 7:
            case 8:
            case 10:
            case 12:
                System.out.println("31 days");

```

```

        break;
    case 4:
    case 6:
    case 9:
    case 11:
        System.out.println("30 days");
        break;
    case 2:
        System.out.println("28 or 29 days"); // Leap year check needed
        break;
    default:
        System.out.println("Invalid month");
    }
}
}

```

4.Using for loop statement, print the even and odd number between 100 to 300

```

public class EvenOddNumbers {
    public static void main(String[] args) {
        System.out.println("Even numbers between 100 and 300:");
        for (int i = 100; i <= 300; i++) {
            if (i % 2 == 0) {
                System.out.print(i + " ");
            }
        }

        System.out.println("\nOdd numbers between 100 and 300:");
        for (int i = 100; i <= 300; i++) {
            if (i % 2 != 0) {
                System.out.print(i + " ");
            }
        }
    }
}

```

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