Switch Statements

▼ Q1 : Take a input string(name of a fruit), If the input is Mango, display KING OF FRUITS. if its apple, display SWEET RED FRUIT. if its orange,display ROUND FRUIT.If its grapes, display SMALL FRUIT

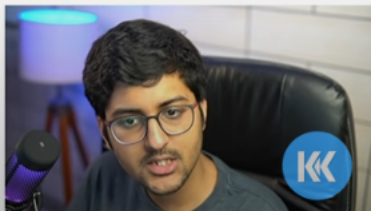
```
// Without switch Statement
import java.util.Scanner;

public class fruits {

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

        System.out.print("Enter some String:");
        String fruit=in.next();

        if(fruit.equals("mango")){
            System.out.println("KING OF FRUITS");
        }
        if(fruit.equals("apple")){
            System.out.println("SWEET RED FRUIT");
        }
        if(fruit.equals("orange")){
            System.out.println("ROUND FRUIT");
        }
        if(fruit.equals("grapes")){
            System.out.println("SMALL fruit");
        }
    }
}
```

In switch statements, you can jump to various cases based on your expression.

Syntax:

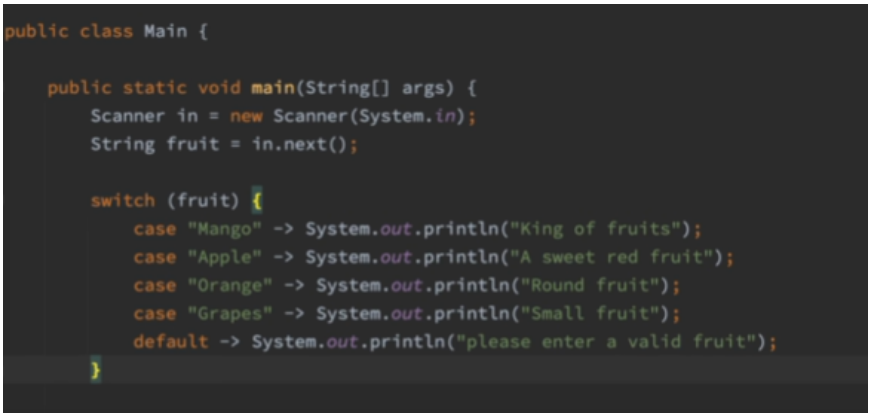
```
switch (expression) {

    // cases
    case one:
        // do something
        break;

    case two:
        // do something
        break;

    default:
        // do something
}
```

NOTE:
- cases have to be the same type as expressions, must be a constant or literal
- duplicate case values are not allowed
- break is use to terminate the sequence
- if break is not used, it will continue to next case
- default will execute when none of the above does
- if default is not at the end, put break after it



```
//using switch statements

import java.util.Scanner;

public class fruits {

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

        System.out.print("Enter some String:");
        String fruit=in.next();

        switch(fruit){
            case "mango" :
                System.out.println("KING OF FRUITS");
                break;
            case "apple" :
                System.out.println("SWEET RED FRUIT");
                break;
            case "orange":
                System.out.println("ROUND FRUIT");
                break;
            case "grapes":
```

```
                System.out.println("SMALL fruit");
                break;
            default:
                System.out.println("Enter a valid value");
                break;   // If there is No break --> all t
        }

    }
}
```



```
public class Main {

    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        String fruit = in.next();

        switch (fruit) {
            case "Mango" -> System.out.println("King of fruits");
            case "Apple" -> System.out.println("A sweet red fruit");
            case "Orange" -> System.out.println("Round fruit");
            case "Grapes" -> System.out.println("Small fruit");
            default -> System.out.println("please enter a valid fruit");
        }
```

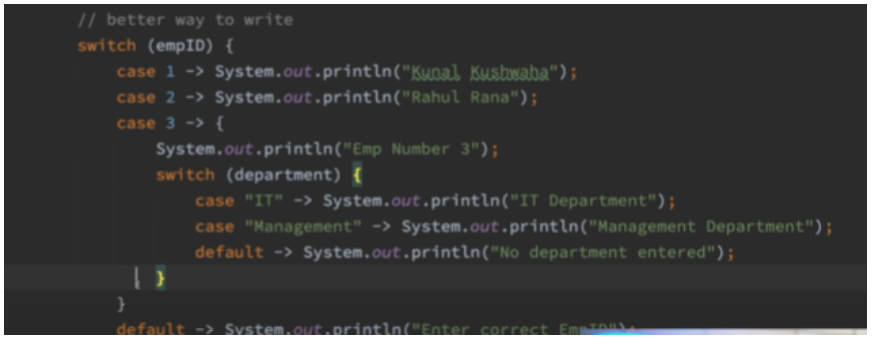
▼ Days (Weekday/Weekend)

```
import java.util.Scanner;

public class days {
    public static void main(String[] args) {
        System.out.print("Enter any number between 1 to 7:
        Scanner in=new Scanner(System.in);
        String Day=in.next();

        // switch (Day) {
        //     case "1":
        //         System.out.println("MONDAY");
        //         break;
        //     case "2":
        //         System.out.println("TUESDAY");
        //         break;
        //     case "3":
        //         System.out.println("WEDNESDAY");
```

```
        //         break;
        //     case "4":
        //         System.out.println("THURSDAY");
        //         break;
        //     case "5":
        //         System.out.println( "FRIDAY");
        //         break;
        //     case "6":
        //         System.out.println("SATURDAY");
        //         break;
        //     case "7":
        //         System.out.println("SUNDAY");
        //         break;
        //     default:
        //         System.out.println("Enter a valid");
        //         break;
        // }

    switch (Day) {
        case "1":
        case "2":
        case "3":
        case "4":
        case "5":
            System.out.println( "WEEKDAY");
            break;
        case "6":
        case "7":
            System.out.println("WEEKEND");
            break;
        default:
            System.out.println("Enter a valid input");
            break;
        }

    }

}
```

Nested Switch Statements

(Switch case inside a switch case)



```
// better way to write
switch (empID) {
    case 1 -> System.out.println("Kunal Kushwaha");
    case 2 -> System.out.println("Rahul Rana");
    case 3 -> {
        System.out.println("Emp Number 3");
        switch (department) {
            case "IT" -> System.out.println("IT Department");
            case "Management" -> System.out.println("Management Department");
            default -> System.out.println("No department entered");
        }
    }
    default -> System.out.println("Enter correct Emp ID");
```