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Switch Statement

Switch Statement

- Switch-case statement used to compare the value of a variable with multiple values and execute some statements based on the match.

- Switch statement's expression must be evaluated to a single value, it can not be long, double, float and Boolean data types.

```
switch(expression){

    case constant1:
        statements;
        break;

    case constant2:
        statements;
        break;

    default:
        statements;
        break;
}
```

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Switch Statement

```
switch(expression){

    case constant1:
        statements;
        break;

    case constant2:
        statements;
        break;

    default:
        statements;
        break;
}
```

No curly brackets for case blocks, even in case of more than 1 statements.

All the case block statements are optional including break. Blank case is perfectly legal code.
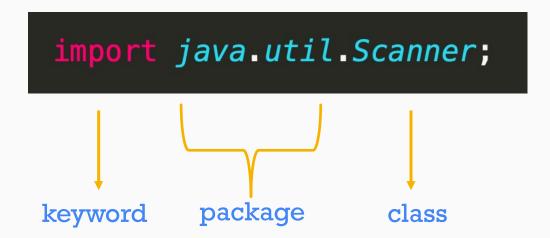
default block can appear anywhere in the code. It should not be the last one.

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Scanner Class

Scanner Class

- Provides the methods to get inputs

- Presented in java.util package

- Need to be imported in our program

```
import java.util.Scanner;
```

keyword   package   class

Scanner Creation/Declaration

- Must be instantiated before it can be used.

- The parameter System.in passed to the Scanner's constructor to connect the scanner to the keyboard

```
Scanner keyboard = new Scanner(System.in);
```

This declares a variable named keyboard. The variable can reference an object of the scanner class.

This creates a Scanner object in memory. The object will read input from System.in

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Scanner Methods

Method Name	Description
nextByte()	Returns input as a byte
nextShort()	Returns input as a short
nextInt()	Returns input as an int
nextLong()	Returns input as a long
nextFloat()	Returns input as a float
nextDouble()	Returns input as a double
nextBoolean()	Returns input as a boolean
next()	Returns input as a String, reads the input only until a space
nextLine()	Returns input as a String, reads the entire input until the new line (press enter)

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