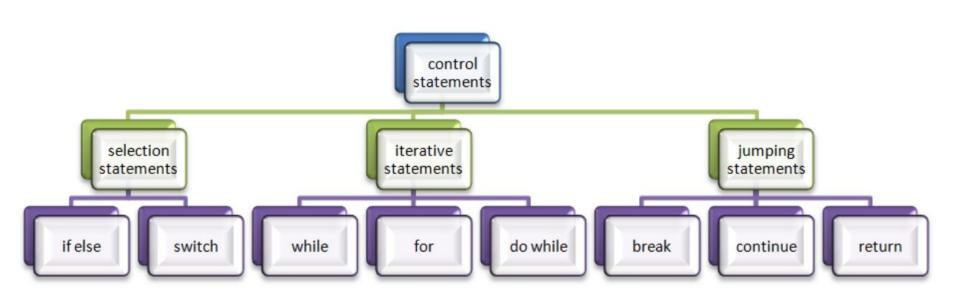
Lecture 7

Control Structures

Control Statements



if-else

Remember Conditionals from Lecture 2?

- IF <something is true>
 - THEN <something will happen>
- IF <something is true>
 - THEN <something will happen>
 - ELSE <something else will happen>

if-else

IF <you give me 10 Rs>

THEN < I'll give you a packet of chips>

ELSE IF <you give me 20 Rs>

THEN < I'll give you a candy>

ELSE < I won't give you anything>

if-else —- Even or odd number

```
int number = 5;

if(number % 2 == 0) {
    System.out.println("even");
} else {
    System.out.println("odd");
}
```

if-else — Check if number is even

```
int number = 4;

if(number % 2 == 0) {
    System.out.println("even");
}
```

if-else — Print Month

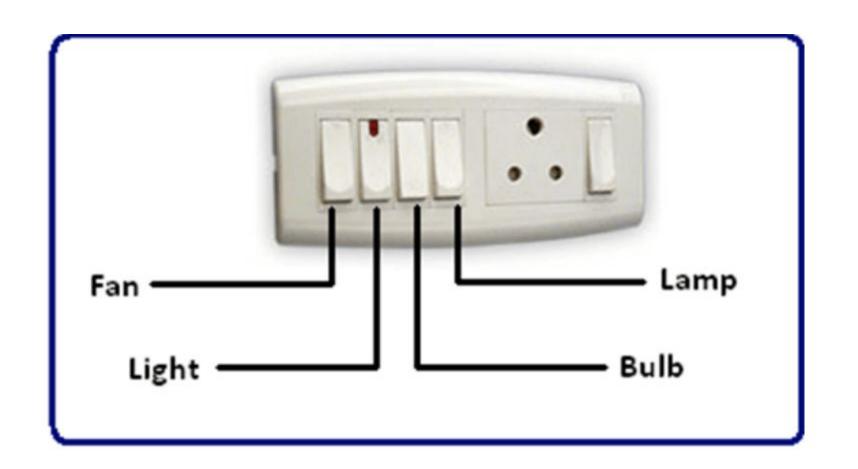
```
int month = 4;
if(month == 1) {
    System.out.println('January');
} else if(month == 2) {
    System.out.println('February');
} else if(month == 3) {
    System.out.println('March");
} else if(month == 4) {
    System.out.println('April");
} else if(month == 5) {
    System.out.println('May");
} else if(month == 6) {
    System.out.println('June");
} else {
    System.out.println('I can only print months from January to June);
```

if-else —-- Print Season

```
int month = 4;
if (month \geq 3 && month \leq 5) { // March to May
   System.out.println("Spring");
else if(month >= 6 && month <= 8) { // June to August</pre>
   System.out.println("Summer");
else if (month >= 9 && month <= 11) { // September to November
   System.out.println("Autumn");
else { // December to January
   System.out.println("Winter");
```

switch

```
switch(expression) {
    case (value1):
        // statements;
   break;
    case (value2):
        // statements;
   break;
    default
       // statement
```



switch

```
int day = 6;
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("Invalid day");
```

ternary operators

```
Syntax:
```

```
(expression) ? <return if expression is True> : <return if expression is False>
  int num = 4;

boolean even = (num % 2 == 0) ? true : false;
  if(even) {
      System.out.println("even");
  } else {
      System.out.println("false");
}
```

continue statement

```
for(int i = 1; i <= 10; i++) {
    if(i > 5 && i <= 8) {
        continue;
    }
    System.out.println("Hello World " + i);
}
System.out.println("We are out of for loop");</pre>
```