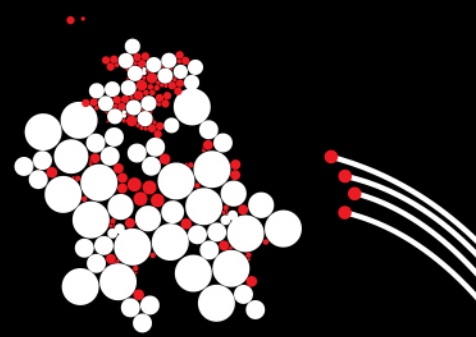
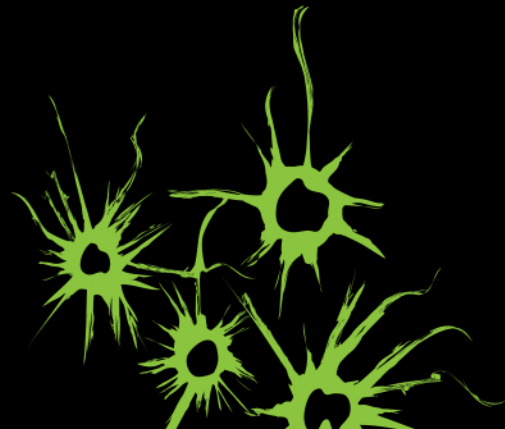
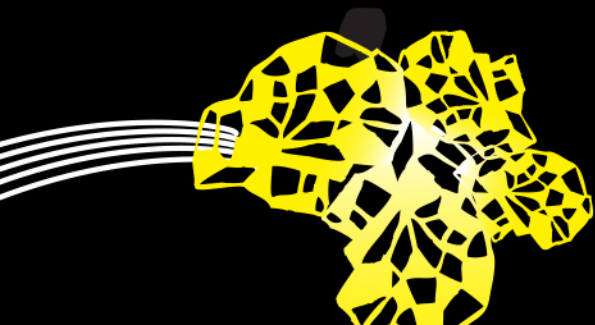


UNIVERSITY OF TWENTE.



PROGRAMMING: ADVANCED IF-ELSE

FAIZAN AHMED



IF-ELSE

CHOOSING FROM MULTIPLE OPTIONS

```
double grade=7;

if(grade>=8) {
    System.out.println("Excellent");
}
else if(grade>=5.5) {
    System.out.println("Sufficient");
}
else {
    System.out.println("In-Sufficeint");
}
```

More explicit Boolean condition

```
double grade=7;

if(grade>=8) {
    System.out.println("Excellent");
}
else if(grade>=5.5 && grade<8) {
    System.out.println("Sufficient");
}
else {
    System.out.println("In-Sufficeint");
}
```

SWITCH STATEMENT

```
// Day number to name
int dayNumber=1;
if(dayNumber==1) {
    System.out.println("Monday");
}
else if(dayNumber==2) {
    System.out.println("Tuesday");
}
else if(dayNumber==3) {
    System.out.println("Wednesday");
}
else if(dayNumber==4) {
    System.out.println("Thursday");
}
else if(dayNumber==5) {
    System.out.println("Friday");
}
else if(dayNumber==6) {
    System.out.println("Saturday");
}
else if(dayNumber==7) {
    System.out.println("Sunday");
}
else {
    System.out.println("Not a day!");
}
```

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```
// Day number to name
int dayNumber=4;
switch(dayNumber) {
    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("Not a day!");
        break;
}
```

Allowed types: byte, short, int, char, String

SWITCH STATEMENT

```
// Do not forget the break
int a=1;
switch(a) {
case 1:
    System.out.println("Inside Switch 1: a="+a);
case 2:
    System.out.println("Inside Switch 2: a="+a);
default:
    System.out.println("default");
}
System.out.println("Outside Switch: a="+a);
```

```
Inside Switch 1: a=1
Inside Switch 2: a=1
default
Outside Switch: a=1
```

SWITCH STATEMENT

```
int numberOfDays;
String monthName="Aug";
if(monthName.equals("Jan")||monthName.equals("Mar")
    ||monthName.equals("May")||monthName.equals("Jul")
    ||monthName.equals("Aug")||monthName.equals("Oct")
    ||monthName.equals("Dec")){
    numberOfDays=31;
}
else if(monthName.equals("Feb")){
    numberOfDays=28;
}
else{
    numberOfDays=30;
}
System.out.println(monthName+" has "+numberOfDays+" days.");
```

```
// Number of days in a month.
int numberOfDays;
String monthName="Aug";
switch(monthName){
    case "Jan":
    case "Mar":
    case "May":
    case "Jul":
    case "Aug":
    case "Oct":
    case "Dec":
        numberOfDays=31;
        break;
    case "Feb":
        numberOfDays=28;
        break;
    default:
        numberOfDays=30;
        break;
}
System.out.println(monthName+" has "+numberOfDays+" days.");
```

TERNARY OPERATOR

```
double grade=5.8;
```

```
String status;
```

```
status=grade>=5.5?"Sufficeint":"insufficient";  
System.out.println(status);
```

```
double grade=5.8;
```

```
System.out.println(grade>=5.5?"Sufficeint":"insufficient");
```