Tutorial: Teaching Week 1

- Operators (including operator precedence)
- Control structures: selection and repetition
- The break statement
- Basic Java programs
- Simple problem specifications



```
int x = 5;
if (x < 10) {
   System.out.println("less than 10");
} else if (x > 10) {
   System.out.println("greater than 10");
} else {
   System.out.println("equals to 10 ");
}
```



```
int x = 30;
if (x > 10) {
   System.out.println("greater than 10");
} else if (x > 20) {
   System.out.println("greater than 20");
} else {
   System.out.println("no");
}
```



```
int i=4, j=5, k=6;
if (j > i) {
   if (j < k) {
      if (j <= j) {
         if (i == 4) {
           System.out.println("yes");
         } else {
           System.out.println("no");
```



```
for (int i = 0; i < 3; i++) {
    switch (i) {
       case 0: {
         System.out.println("zero");
         break;
        case 1 : {
         System.out.println("one");
         break;
       default : {
         System.out.println("none");
         break;
```



```
for (int i = 0; i < 3; i++) {
    switch (i) {
       case 0: {
         System.out.println("zero");
       case 1 : {
         System.out.println("one");
       default : {
         System.out.println("none");
```



```
for (int i = 0; i < 3; i++) {
    switch (i) {
       case 1 : {
         System.out.println("one");
       case 0: {
         System.out.println("zero");
      default : {
         System.out.println("none");
```



Questions 7+8

- Write a Java program that calculates the sum of integers in the range 1 to 100 (inclusive).
- Write a Java program that produces a multiplication table, showing the results of multiplying the integers 1 through to 3. The output of your program should look as follows:

```
1 2 3
```

2 4 6

3 6 9



Questions 9+10

What will be printed out using the following code?

```
class Question2c {
  public static void main(String[] args) {
    int i=8, j=9;
    boolean test;
    test=i>7&&j-- > i++;
    System.out.println(i);
    System.out.println(j);
    System.out.println(j);
}
```

 Write a block of code that calculates the sum of all the integers divisible by 3, in the range 1 to 99 (inclusive). You are not required to write a complete program.



These are past exam questions.

