Object Oriented Programming - Handout 1

Konrad Wojda, 9307820244

```
Exercise 1.1
```

```
for (int i = 1; i < 20; i++)
{
    if (i % 3 == 0)
        continue;
    if (i % 4 == 0)
        i++;
    if (i > 10)
        break;
    System.out.println(i);
}
Output of this code is
1
2
5
7
9
10
```

Exercise 1.2

Rewritten code with only if-else:

```
boolean b = true;
int z = 0, i = 0, c = 0;
```

```
if (i == 11) {
    if (b) {
        c = 8;
    } else if (!b) {
        c = 3;
    } else {
        c = 6;
    }
} else if (i == 12 || i == 13) {
        z = 10;
} else {
        z = 15;
}
```

Exercise 1.3

Results are:

Condition	Value
(x > num) && !y	false
$(\text{item} > MIN) \mid\mid (DAY != 'M')$	true
((num * 128) < power) && y	false
(!(power != MAX)) && (Sens == num)	true
$((MIN + x) < num) \mid\mid (DAY == 'M')$	true
(Sens * 0) != 0	false
(!true y) && (!y false)	false

Exercise 1.4

Code for given task is:

```
System.out.println("\nExercise 1.4 Output:");
Scanner scanner = new Scanner(System.in);
System.out.print("Enter number of lines: ");
int num = scanner.nextInt();

for (int i = 1; i <= num; i++) {
    for (int j = num; j > i; j--) {
        System.out.print(" ");
    }
    for (int j = i; j >= 1; j--) {
        System.out.print(j);
    }
    for (int j = 2; j <= i; j++) {</pre>
```

```
System.out.print(j);
}
System.out.println();
}
scanner.close();
For a) we just have to assume that num == 5 and skip scanning part.
Example of usage:
Enter number of lines: 5
1
212
32123
4321234
543212345
```