

## Seminar 1: IN1010 University of Oslo Java Post Quiz answers

1. Write down precisely what would be printed when each of the following Java code snippets is executed. If you think that any expression would result in an error, explain clearly the cause of the error.

You may assume the code immediately below, to declare variables, has been executed.

```
String[] x = {"ab", "cd", "ef"};  
String[] y = x;
```

- a. `System.out.println(x==y);` # Answer: true
- b. `System.out.println(y[1]+y[2]);` # Answer: cdef
- c. `int a;`  
`a=1;` # Answer: error  
`a=10.5;`  
`System.out.println (a);`
- d. `System.out.println("hello" + str(3));` # Answer: error
- e. `System.out.println("1" + "1");` # Answer: 11
- f. `System.out.println(5/2*1);` # Answer: 2.5
- g. `System.out.println(3-(1+2));` # Answer: 0

## 2.

- a. What is the output when this **for-loop** program fragments are executed?

```
for (int i=0; i<2; i++){  
    System.out.println("hello");  
    i=3;} # Answer: hello
```

- b. 

```
for (int i=0; i<=3; i++)  
{  
    int a=2;  
    int b=4;  
    System.out.println(a);  
}  
System.out.println(a+b);
```

 # Answer: error

3. What will be the value of **sum** when the following code fragment is executed?

```
int i = 0;  
while (i < 2)  
{  
    System.out.println("sum");  
    i++;  
}
```

 # Answer: sumsum

4. What will be the output when the following code fragment is executed?

# Answer: 12

```
public class flo {
    public static int x=10;

    public static void main(String []args){
        System.out.println(flow(2));
    }

    public static int rate(int p, int q){
        int z=p+x;
        return z;
    }

    public static int flow(int p){
        int deli=p*2;
        int prime=rate(p, deli);
        return prime;
    }
}
```

5. What will be the output when the following code fragment is executed?

# Answer: 1245 24

```
public class Student {
    private int x;
    private int y;

    public Student(int x1, int y1) {
        x = x1;
        y = y1;
    }

    public static void main(String []args){
        Student p= new Student(23, 1245);
        p.kopa();
        p.busa();
        System.out.println(p.y + " " + p.x);
    }

    public void busa() {
        x = x - 1;
    }

    public void kopa() {
        x = x + 2;
    }
}
```

6. What will be the output when the following code fragment is executed?

***# Answer: [Toyota, Mercedes] [Toyota, Mercedes]***

```
import java.util.ArrayList;
public class Main {
    public static void main(String[] args)
    {
        ArrayList<String> cars = new
        ArrayList<String>();
        cars.add("Toyota");
        ArrayList<String> cars2=cars;
        cars2.add("Mercedes");
        System.out.println(cars);
        System.out.println(cars2);
    }
}
```

Prepared by Ethel Tshukudu  
Project: Programming Language Transfer  
Centre for Computing Science Education/ University of Glasgow