Fundamentals of Programming 1 5% Exercise sheet 1 - All questions must be attempted

Ouestion 1

Write a Java program that produces the following output. Name your program **Question1.java**

Java Programming
Rocks

Ouestion 2

Write a Java program that prints the answers to the following arithmetic expressions on **separate** lines. Name your program **Question2.java**

NOTE: your program should print the linear expression and the result.

1. $4 \times 4 =$

2. $3 \times 7 + (-2 \times -8) =$

3. $\frac{(2\times 5)-6}{(4\times 8)-30}=$

Ouestion 3

Write a Java program that uses two variables x and y to store the values 71 and 3.14. Your program should print the values stored in x and y to the screen. Name your program Question3.java

$$x = 71$$

 $y = 3.14$

Question 4

An employee receives an hourly rate of €9.80 and works 42 hours a week. Write a Java program that calculates the employees gross weekly wage and prints it to screen. **NOTE:** be very careful when choosing variable types and their names. Name your program **Question4.java**

Hourly rate is 9.8 Hours worked is 42 Gross weekly is 411.6

Question 5

Given the following function $f(x) = x^2 + 3x - 5$, write a Java program to evaluate f(x), where x = 4. Your program should use a variable called x and print the linear arithmetic expression along with the result. Name your program Question5.java

NOTE: x^2 can be written as (x * x).

Deliverables

Save your Java solutions to questions 1,2,3,4 and 5 **Week1**. Zip the Week1 folder and upload the zip file using the Week1 upload link for your group on MOODLE. **Remember to only include the .java source files.**

Plagiarism

This assessment should be an individual piece of work. Any evidence of plagiarism will result in a grade of zero for all parties involved and will trigger the Universities plagiarism policy 3AS08 (see course coordination page).