## Tutorial week 1 on Introduction to Programming

- 1. Distinguish between Hardware and Software.
- 2. What are the main components of a computer?
- 3. What does the CPU stand for and what is it role?
- 4. With the help of appropriate examples distinguish between primary (main) and secondary memory.
- 5. Write down all the bit permutations of 3 bits and 4 bits.
- 6. How many items can be represented by an 8-bit?
- 7. One terabyte is 2 to the power of \_\_\_\_\_.
- 8. What are the three main modules that consist the CPU and what are their roles?
- 9. Name and briefly describe the four programming language levels providing suitable examples of each.
- 10. What is a compiler and what is its function?
- 11. How do you differentiate between a compiler and an interpreter?
- 12. Name and describe with the help of suitable examples three types of errors that a program can contain.
- 13. What is the name of the machine language for the Java Virtual machine?
- 14. Describe what is an algorithm. Support your answer with an example.
- 15. How do you differentiate between an algorithm and a flowchart?
- 16. Draw the 7 standard symbols which are used in Flowchart and explain briefly the purpose of each of these.

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