

## Java Assignment 1

## Note:

- 1. The answer to the theory question should be submitted in a text file (DOC, DOCX, TXT, or PDF).
- 2. In implementing your programs, please use only those language features which have been discussed so far in the class.
- 3. For the programming problems, you are not expected to take inputs from user or input files etc. Simply hard-code input values in the main function.

## Questions:

- 1. Discuss the following (with examples):
  - (a) Compiled and interpreted languages
  - (b) Machine code and byte code
  - (c) Virtual machine
  - (d) WORA
  - (e) Statically typed and dynamically typed languages (theory.doc)
- 2. Write a program which prints "Hello World!" to the console. (Hello.java)
- 3. Write a program Dbl which takes an integer from standard input prints its double on the standard output. (Dbl.java)
- 4. Write a function Speak that prints the sound of an animal (input from the standard input). If animal is "human", the program prints "bla bla bla"; if the animal is "dog", the program prints "bark"; and if the animal is "cat" then the program prints "meow". Use if-else constructs. (Speak.java)
- 5. Write a Program IterativeSumFor that accepts an integer from the standard input and prints the value of the sum 1 + 2 + 3 + ... + n. Use for-loop. (IterativeSumFor.java)

6. Write a program IterativeSumWhile that accepts an integer from the standard input and prints the value of the sum 1 + 2 + 3 + ... + n. Use while-loop. (IterativeSumWhile.java)