

Assignment 9

1. Fill in the blank. [3 points]

- a) A program that translates an assembly-language program in machine code is called ____.
- b) A program that translates a high-level language program into machine code is called ____.
- c) A program that inputs a program in a high-level language and directs the computer to perform the actions specified in each statement is called ____.

2. Determine the statement is True or False. [5 points]

- a) A procedure is a set of instructions for performing a task and return a value back to the calling program unit.
- b) Java use second approach to interpretation. A Java source program is first compiled to create Java bytecode, which is the object code for Java Virtual Machine. The bytecode can be compiled or interpreted by any computer that runs a JVM emulator.
- c) In object-oriented programing, an object that is based on a particular class is said to be an instance of that class. There can be only one instance of one class.
- d) A compilation process consists of three activities: lexical analysis, parsing, and code generation, that are performed by three units in the complier know as the lexical analyzer, parser, and code generator.
- e) Different from C or Java, Python uses indentation to denote program blocks.

3. Read following code an answer the question. [2 points]

```
main(){
    x = 100
    y = func(x)
    print(x)
    print(y)
}

func(x){
    x = x + 100
    return x
}
```

- a) If the program is passing by value, what will main program output?

b) If the program is passing by reference, what will main program output?