

## Unit 07 and Chapter 6: Programming Languages

Answer the following questions using the textbook, your individual notes, and the Internet.

1. What is the difference between an *assembler*, a *compiler*, and an *interpreter*?

2. What is the difference between *declarative* statements, *imperative* statements, and *comments*? Why do programming languages need all three?

3. Draw parentheses to show operator precedence. What is the value of number?

```
number = 1 + 2 * 3 - 4 / 5 + 6 * 7 - 8 / 9
```

4. Rewrite the following instructions in Python using a single if-else statement.

```
if (X = 5) goto 50
goto 60
50 print the value of Z
goto 100
60 print the value of Y
100 . . .
```

5. Why is the “goto” statement no longer popular in high-level programming languages?