## Assignment 3

- Why are functions advantageous to have in your program?
   Ans Functions reduce the need for duplicate code. This makes programs shorter, easier to read, and easier to update.
- When does the code in a function run: when it's specified or when it's called?
   Ans The code in a function executes when the function is called, not when the function is defined.
- 3. What statement creates a function?
  Ans he def statement defines, i.e. creates a function.
- 4. What is the difference between a function and a function call?

  Ans A function consists of the def statement and the code in its def clause. A function call is what moves the program execution into the function, and the function call evaluates to the function's return value.
- 5. How many global scopes are there in a Python program? How many local scopes?

  Ans There is only one global scope in python and the local scope or function scope is a Python scope created at function calls. Every time you call a function, you're also creating a new local scope.
- What happens to variables in a local scope when the function call returns?
   Ans When a function returns, the local scope is destroyed, and all the variables in it are forgotten.
- 7. What is the concept of a return value? Is it possible to have a return value in an expression?

  Ans A return value is the value that a function call evaluates to. Like any value, a return value can be used as part of an expression.
- 8. If a function does not have a return statement, what is the return value of a call to that function?

  Ans If there is no return statement for a function, its return value is None.
- 9. How do you make a function variable refer to the global variable?

  Ans A global statement will force a variable in a function to refer to the global variable.
- 10. What is the data type of None?

  Ans The data type of None is None Type
- 11. What does the sentence import are all your pets namederic do?

  Ans That import statement imports a module named areallyourpetsnamederic.
- 12. If you had a bacon() feature in a spam module, what would you call it after importing spam? Ans This function can be called with spam.bacon().
- 13. What can you do to save a programme from crashing if it encounters an error? Ans Place the line of code that might cause an error in a try clause.

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14. What is the purpose of the try clause? What is the purpose of the except clause?

Ans - The code that could potentially cause an error goes in the try clause. The code that executes if an error happens goes in the except clause.