# **INEURON ASSIGNMENTS**

**Python Basics: Assignment 3** 

# **Question 1:** Why are functions advantageous to have in your programs?

#### Answer:

- Functions will help to reuse the code.
- Breaks the complex code into pieces which give easy references and maintenance
- Improves code clarity

# **Question 2:** When does the code in a function run: when it's specified or when it's called

#### **Answer**:

- Code in function will run when function call.
- Function will be called at any place out of the function or within the function. If function is called within function, it called as recursive function.

# **Question 3:** What statement creates a function.

#### **Answer**:

- def is the keyword to define function.
- def <function name>: <function code>

# **Question 4:** What is the difference between a function and a function call?

#### **Answer**:

- "Function" is a piece of code to do some tasks.
- Whereas "Function call" is to invoke/call the Function to execute the function code.

# **Question 5:** How many global scopes are there in a Python program? How many local scopes

# **Answer**:

- There is only one global scope for the program until its name or value changed.
- There can be more than one local scope dependents on the program. The variable defines within function/ class will be act as local variable.

**Question 6:** What happens to variables in a local scope when the function call returns

#### **Answer:**

• When a function returns, the local scope is destroyed, and all the variables in it are forgotten.

```
def function1():
    a = 10
    b = 20
    return a + b

a = function1() # function call
print(a)
```

**Question 7:** What is the concept of a return value? Is it possible to have a return value in an expression

#### **Answer**:

• 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.

**Question 8:** If a function does not have a return statement, what is the return value of a call to that function

# **Answer**:

• The answer is None.

```
def function1():
    a = 10
    b = 20
    a + b

a = function1() # function call
print(a)
```

None

# **Question 9:** How do you make a function variable refer to the global variable

#### **Answer**:

• Using 'global' keyword, we can make function variable as global variable.

```
def function1():
    global b
    b = 10

function1() # function call
print(b)
```

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# **Question 10:** What is the data type of None

#### Answer:

• None is the datatype of the class NoneType and None is a keyword and object of the NoneType class.

# **Question 11:** What does the sentence import areally our petsnamederic do

#### **Answer**:

• If such module is already created by user, then it is possible. If not, it will throw error as such module is not found.

**Question 12:** If you had a bacon() feature in a spam module, what would you call it after importing spam

#### **Answer**:

This function can be called with spam.bacon()

**Question 13:** What can you do to save a programme from crashing if it encounters an error?

#### **Answer**:

• We can use try..except. Place block of code that assumes to get error and place block of code in except clause to handle error.

Question 14: What is the purpose of the try clause? What is the purpose of the except clause?

#### **Answer**:

• Try clause is used to place code lines which have chance to cause errors. Except clause is used to place code lines if any error occurs in Try clause.