ASSIGNMENT - 3

1. Why are functions advantageous to have in your programs?

Ans: *Functions reduce the need for duplicate code. This makes programs shorter, easier to read, and easier to update. The main advantage of functions is code Reusability.*

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2. 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 specified.*

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3. What statement creates a function?

Ans: *The def statement defines a function*

*Syntax of Function:*

*def function\_name(parameters): """doc string""" -----function body----- -----function body----- return value.*

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4. What is the difference between a function and a function call?

Ans: *A function is procedure to achieve a particular result. while function call is using this function to achive that task. Using a function to do a particular task any point in program is called as function call.*

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5. How many global scopes are there in a Python program? How many local scopes?

Ans: *There is one global scope, and a local scope is created whenever a function is called.*

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6. 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.*

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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.*

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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.*

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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. If you want to refer to a global variable in a function, you can use the global keyword to declare which variables are global.*

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10. What is the data type of None?

Ans: *The data type of None is NoneType.*

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11. What does the sentence import areallyourpetsnamederic do?

Ans: *That import statement imports a module named areallyourpetsnamederic.*

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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().*

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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 and use except block to handle the error.*

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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.*

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