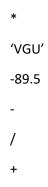
## **Assignment 1: Python Basics**

**Question 1.** In the below elements which of them are values or an expression? eg:- values can be integer or string and expressions will be mathematical operators.



6

- **Question 2.** What is the difference between string and variable?
- Question 3. Describe three different data types.
- Question 4. What is an expression made up of? What do all expressions do?
- **Question 5.** This assignment statements, like spam = 10. What is the difference between an expression and a statement?
- Question 6. After running the following code, what does the variable bacon contain?

bacon = 22 bacon + 1

**Question 7.** What should the values of the following two terms be?

```
'spam' + 'spamspam'
'spam' * 3
```

- Question 8. Why dorito is a valid variable name while 78 is invalid?
- **Question 9.** What three functions can be used to get the integer, floating-point number, or string version of a value?
- Question 10. Why does this expression cause an error? How can you fix it?

'I have eaten ' + 99 + ' burritos.'

- **Question 11.** Write code that prints Hello if 1 is stored in spam, prints Howdy if 2 is stored in spam, and prints Greetings! if anything else is stored in spam.
- **Question 12.** If your programme is stuck in an endless loop, what keys you'll press?
- **Question 13.** How can you tell the difference between break and continue?

- Question 14. In a for loop, what is the difference between range(10), range(0, 10), and range(0, 10, 1)?
- **Question 15.** Write a short program that prints the numbers 1 to 10 using a for loop. Then write an equivalent program that prints the numbers 1 to 10 using a while loop.
- **Question 16.** If you had a function named bacon() inside a module named spam, how would you call it after importing spam? What statement creates a function?
- Question 17. What is the difference between a function and a function call?
- Question 18. How many global scopes are there in a Python program? How many local scopes?
- Question 19. What happens to variables in a local scope when the function call returns?
- Question 20. What is the concept of a return value? Is it possible to have a return value in an expression?
- Question 21. If a function does not have a return statement, what is the return value of a call to that function?
- Question 22. How do you make a function variable refer to the global variable?
- Question 23. What is the data type of None?
- **Question 24.** What does the sentence import areallyourpetsnamederic do?
- Question 25. If you had a bacon() feature in a spam module, what would you call it after importing spam?
- Question 26. What can you do to save a programme from crashing if it encounters an error?
- **Question 27.** What is the purpose of the try clause? What is the purpose of the except clause?
- Question 28. What exactly is []?
- **Question 29.** In a list of values stored in a variable called spam, how would you assign the value 'hello' as the third value? (Assume [2, 4, 6, 8, 10] are in spam.)
- **Question 30.** Let's pretend the spam includes the list ['a', 'b', 'c', 'd'] for the next three queries.