

Assignment no 1

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.

Ans:

Values = 'hello', -87.8, 6.

Expression = *, -, /, +.

2. What is the difference between string and variable?

Ans:

Variable are specific names or symbols that are use to store a data. In which we can store data of any data type.

String is a data type in python. Used to represent text.

3. Describe three different data types.

Ans:

Integers: integers are the numbers which are without any fractional number with them like 20.29

Basically, integer is a whole number

Floats: this are number with decimal point.

String : String are use to define the text data. It contains characters. Write in single or double quotes (') or (")

4. What is an expression made up of? What do all expressions do?

Expressions are the combination of multiple values, variable, operators. it creates a result after being interpreted by interpreter.

Example: $x=5+10x$

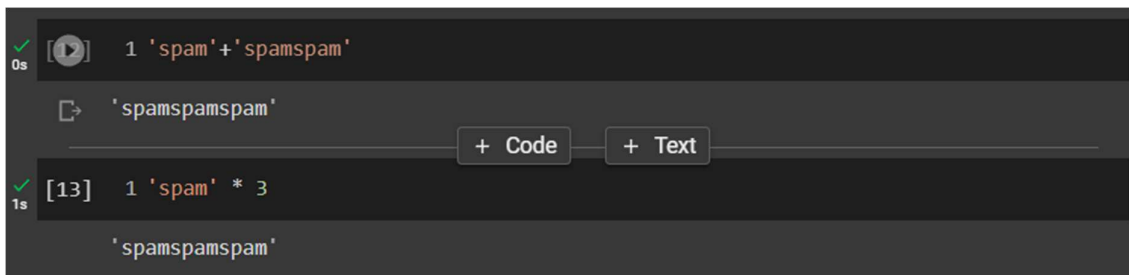
5. This assignment statements, like `spam = 10`. What is the difference between an expression and a statement?

Expressions can be use as operands but statement can only be used for the declaration.

6. After running the following code, what does the variable bacon contain?

Ans: it will contain 22.

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



```
0s [1] 1 'spam'+'spamspam'
      'spamspamspam'
      + Code + Text
1s [13] 1 'spam' * 3
      'spamspamspam'
```

Values will be 1. spamspamspam

2. spamspamspam

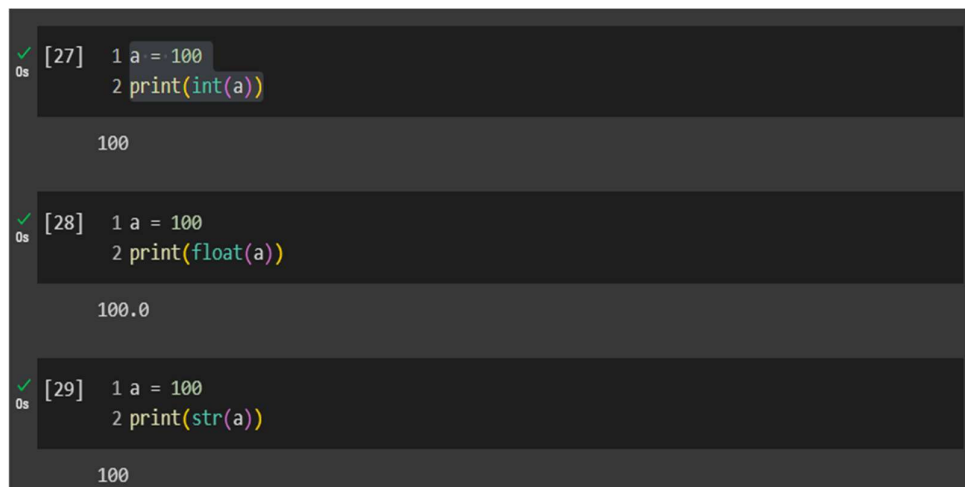
8. Why is eggs a valid variable name while 100 is invalid?

Ans: eggs is valid name because it is alphabet variable can not be number.

9. What three functions can be used to get the integer, floating-point number, or string version of a value?

Int() , float() , and str () used to get integer, floating-point number, or string

version of a value.

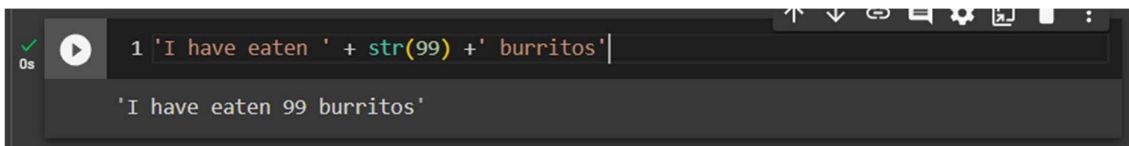


```
0s [27] 1 a = 100
      2 print(int(a))
      100
0s [28] 1 a = 100
      2 print(float(a))
      100.0
0s [29] 1 a = 100
      2 print(str(a))
      100
```

10. Why does this expression cause an error? How can you fix it?

'I have eaten ' + 99 + ' burritos'

Ans: this is showing error because of there are two different type of data type are being used it should be same this error can be solve by declaring 99 as str()



```
0s [1] 1 'I have eaten ' + str(99) + ' burritos'
      'I have eaten 99 burritos'
```