

Assignment 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.

*

'hello'

-87.8

-

/

+

6

ANS:- values:- 'hello' , -87.8 , 6

Expression:- *, -, /, +,

2. What is the difference between string and variable?

ANS:- variable are used to store data of any type whether it be string ,integer, float

And string is a data type which is written in between " " .

3. Describe three different data types.

ANS:- Three different data types are String, integer, float. Eg:- "hello" , 12, 34.56

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

ANS:-An expression is made up of variables,operators and values. All expression produce values or result after being run by an interpreter in python.

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

ANS:- Expressions can be assigned or used as operands, while statements are just logical instruction for code to perform an action, while expressions are values or execute to values.

Assignment 1

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

```
bacon = 22
```

```
bacon + 1
```

ANS:- 22

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

```
'spam' + 'spamspam'
```

```
'spam' * 3
```

ANS:- spam spamspam

spamspamspam

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

ANS:- It is because a variable name should not start with any number or special character instead it should start with alphabet or underscore. And egg starts with alphabet and 100 doesn't.

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

ANS:- the three function are int(), float(), str()

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

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

ANS:- the error occurs because 99 is an integer and we can't add string and integer.

The correct way is 'I have eaten ' + '99' + ' burritos.'