Assignment 1

Neeraj Kumar Pal

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: \* = expression

'hello' = value

-87.8 = value

- = expression

/ = expression

+ = expression

6 = value

2. What is the difference between string and variable?

Ans: Variable is kind of representation of any data or to store data in it. Where as string is type of data which usually represent the alphabetic or alphanumeric variables or can be anything.

3. Describe three different data types.

Ans: String: It is the collection of data types which are mostly contains characters or names in double colon or single colon in python. Str = (“Rahul” ,”Ravan”,”Sushila”)

Integer: It is collection of data types which are basically numbers or numeric value and it dose not require any colon in python. E.g int = (1,3,25)

Float: It is collection of decimal numbers. E.g float=(25.3,25.0,63.2)

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

Ans: Expression is all mathematical operator viz. +,-,\*,/,=. Addition operator used to add and substraction used to substract from each other and so on

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

Ans: Statements represent an action or command e.g print statements, assignment statements. Expression is a combination of variables, operations and values that yields a result value and expression is use to make a statement.

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

bacon = 22

bacon + 1

Ans: 23

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

'spam' + 'spamspam'

'spam' \* 3

Ans: ‘spamspamspam’

‘spamspamspam’

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

Ans: eggs variable get stored in form of string because of alphabet and 100 is number so it get stored in form of integer.

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

Ans: The int() , float() , and str( ) functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.

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

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

Ans: Here in this expression there is an integer in between two strings so due to this we got error. If we fix it then it should be written in the format of( 'I have eaten ' + ‘99’ + ' burritos')