Name : Shahiraj B Lakade

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**

**Operation:- \* , - , / ,+**

2. What is the difference between string and variable?

**Ans:- string:- string is a single character or group of character which doesn’t include numbers**

**Variable:- variable something which used to store data value eg: a=10 so 10 value is stored in a where a is variable**

3. Describe three different data types.

**Ans:- The three data types are:-**

1. **Integer:- It is represented by int .Here values doen’t have decimal points and they are not in fraction eg: 1,5,6,5 etc are integers**
2. **Float:- It is represented as Float .Here values contain decimal points eg:0.05,0.25 etc**
3. **Boolean:- They are usually in terms of True( 1 ) or False( 0 )**

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

**Ans :- Expression is same we write in mathematics.Its a combination of operand and operators eg 12+5**

**Expression represent the value**

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

**Ans:- expression consist of operand and operators eg:- 8+8**

**While statement gives the statement or say instruction ie print(‘python is easy’)**

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

bacon = 22

bacon + 1

**Ans bacon will contain 23**

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

'spam' + 'spamspam'

'spam' \* 3

**Ans:- 'spam' + 'spamspam' = spamspamspam**

**'spam' \* 3 = spamspamspam .Both gives same output**

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

**Ans As variable can only be string type so as ‘eggs’ is string so it is valid .while 100 is integer type and it is always assigned as a data to variable**

**Eg: eggs =100 is valid but 100=eggs is not valid**

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

**Ans :- Int(), float() , str() is used as a three function to get three functions version of a value**

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

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

**Ans:- In above sentence as 99 is integer so we can add only str + str or int +int but here**

**It is str+int+str which cant be added**

**We can fix above issue by writing 'I have eaten ' + '99'+ ' burritos.'**

**OR**

**'I have eaten ' + str(99)+ ' burritos.'**

**Either one you can write**