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.

**\* expression**

**'hello' Value**

**-87.8 Value**

**- Expression**

**/ Expression**

* **Expression**

**6 Value**

2. What is the difference between string and variable?

Variable is named location which store any type of value eg. Int, string, character, decimal number, floating number, complex number.

String is finite collection of character which is value stored in variable.

**e.g a=”python”**

**3. Describe three different data types.**

**Integer 2**

**Complex 2+ 3i**

**String “Jayesh Gangrade”**

**Float 23.5**

**Bool True/ False**

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

**Expression made of variable and mathematical operators**

**a + b \*c**

all expression used to solve problems. It will return any value which can be stored in variable.

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

**Expression will return any value which can be stored in variable.**

**In case of statement value is not return.**

**e.g a= b\*c expression**

**2 +3 statement**

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

bacon = 22

bacon + 1

**bacon contain =22**

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

'spam' + 'spamspam'

**‘spamsapmspam’**

'spam' \* 3

**‘spamsapmspam’**

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

**Variable name always starts with Letter or Underscore.**

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

**int() , float() , and str( )**

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

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

**Convert 99 into string**

**'I have eaten ' + ‘99’ + ' burritos.'**