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 are “hello”[string value ],87.8 and 6 [interger value]

Expression are /,\*,+,- [arthimatic operator]

2. What is the difference between string and variable?

**Ans:** string is collection letters and interger value written between inverted comma

Variable : variable is where we assing perticuler value it may be string ,list ,any interger value

3. Describe three different data types.

* Numeric data types: int, float, complex.
* String data types: str.
* Sequence types: list, tuple, range.
* apping data type: dict.
* Boolean type: bool.

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

**Ans**: An expression is a combination of operators, constants and variables. What do all expressions do?

Expressions are representations of value.

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

Ans:A statement in Python is not evaluated for some results. An expression in Python is evaluated for some results. The execution of a statement changes the state of the variable. The expression evaluation does not result in any state change

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

bacon = 22

bacon + 1

**Ans**: as we first assing 22 to bacon variable and later case we try to concatenate 1 and balon variable as result we get 23 .

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

'spam' + 'spamspam'

'spam' \* 3

**Ans :** Both this case we gets the same result

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

Ans: In python veriable can not start with a number or integer

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

**Ans:** we can use int() ,float(),str() function for integer floating point number and string simultaneously.

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

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

**Ans :** Here in this expression “ I have eaten “ and “ burritos” are string value and 99 is interger value and we want to add string with interger and in python we cant concatenate string with interger .if we want to fix this error we should make 99 as string . for this we have to write 99 between inverted comma like this i.s ‘99’