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- Value 🡪 'hello' , -87.8 , 6

Expression-> \*, -, /,+

2. What is the difference between string and variable?

Ans🡪 string is combination of character as well as number and special character inside ‘’ .it represent a value.

Ex- ‘amit’, ‘amit6’,’amit\_6’,’amit\_6\*’

Variable 🡪 it stores the value in memory or its name of space where value is stored.

a=10

here 10 is value which is stored at location a.

3. Describe three different data types.

Integer – it represent integer value from 0 to 9

String🡪 it represent character or combination character, number and special character enclosed inside ’’.

‘Amit’

Float🡪 it represents value with decimal.

1.123

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

Ans- An expression is valid code which perform work of a program , it is used to compute and assign value to a variable and help in flow of the program

A=10+2

Here it is adding and assigning value to A so combined together all it make an expression

10+2

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

Ans-> expression performs some operation and return the value

Ex a=9+1

Statement is line of code that perform some action but does not return value always.

Print(‘amit’)

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'

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

Ans- variable name should start with character ar some special in ‘\_’ python bt not with a number

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

Ans🡪 int(), float(), str()

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

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

Ans 🡪 we are adding string with number which is not correct(Strong type casting) we can type cast it

Solution->'I have eaten ' + '99' + ' burritos.'

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