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 :

\* = mathematical operators

'hello' = string

-87.8 = float

-  = operator

/  = operator

6  = int

2. What is the difference between string and variable?

In variable we store the data( which can be of different types) on which we are planning to do some exercise. String is a type of variable which is identified by either “ “ or ‘ ‘and within which we write the characters, sentences to represent the string . For example x= “My name is Pradip” , here X is the variable and and type of the variable is string which is denoted by “ “

3. Describe three different data types.

Integer, It stores /contains real number example 4,5 float = they are real numbers It contains decimal example 30.5 . String , it contains one or more characters and put inside the single or double quotes .

4. What is an expression made up of? What do all expressions do? Expression is a combination of all activities such as variable , operations and values . for example X=’Pradip” is a expression where X is a variable , which performs the operation of assignment with string/values of Pradip

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

Spam=10 is an expression , the statement is used for some kind of decision making for example we can say if spam=10 perform the print

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

bacon = 22

bacon + 1

Ans : 22

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?

Because variables are nothing but reserved memory , variable may contain 100 but it has to be followed by any alphabet from A to Z or a to z or should start with underscore(\_) This is standard notation .

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

Ans: float to int , print("float to int:", int(3.4))

String to float, print ( “string to float” , float(45.5))

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

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

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