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

#Expressions \* - / +

1. **What is the difference between string and variable?**

Ans) #String - Data Type 'abc' '1abc' '1' "It's my name" '"Hello!" I am super happy'

#Variables (storage space of data types to be recalled later for different operations) x = 10 a = 'this is a string variable'

1. **Describe three different data types.**

Ans)

1. int - 1, 2, 10 , 90
2. str - 'abc', '1String'
3. float - 10.8 #complex , bool
4. **What is an expression made up of? What do all expressions do?**

Ans) #expressions are made up of operators. They perform operations e.g. x = a+b #expression

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

Ans) #statements is assigning a value to a variable spam = 10 #Expressions z = spam\*\*2

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

**bacon = 22**

**bacon + 1**

Ans) bacon = 23

1. **What should the values of the following two terms be?**

**'spam' + 'spamspam'**

**'spam' \* 3**

Ans) 'spamspamspam'

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

Ans) Because **e**ggs start with a character e while **1**00 starts with a digit 1

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

Ans) int(), float(), str()

1. **Why does this expression cause an error? How can you fix it? 'I have eaten' + 99 + 'burritos.'**

Ans) Because there is data type mismatch of addition operation performing on int and str. This can be fixed by changing int 99 to str(99) 'I have eaten' + str(99) + 'burritos.'