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: 6 and -87.8 are the value. \*,-,/,+ are the Expression

2. What is the difference between string and variable?

Ans:String is used to represent a text data type.

Variable is a alphabet or group of alphabet which acts as temporary storage for any data type, It’s a place holder.

3. Describe three different data types.

Ans : Int, float , string, char, Boolean.

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

Ans: Expression is made up of Numbers and Mathematical operators, which helps for computation.

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

Ans: Assignment Statements are used to assign a value to Variable.

An expression is a combination of values and functions that are combined and interpreted by the compiler to create a new value

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: both gives the same output 'spamspamspam'

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

Variable name should not contain only Numbers, It should be a Letter or group of letter or combination of letter and a number. So 100 is invalid variable name

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

2+3

2/3

“sudh”+”anshu”

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

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

Error: **TypeError**: can only concatenate str (not "int") to str

It can be fixed by removing Integer in the middle or by typecasting Integer into str.

'I have eaten ' + “99” + ' burritos.'

'I have eaten 99 burritos.'