**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.**

**\*** : expressions

**'hello'** : values

**-87.8** : values

**-** : expression

**/**  :expression

* : expression

**6** :values

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

String can be store in inverted or double inverted commas and It may be character, digit anything but variable doesn’t written in inverted commas and do not start with number and spatial character like (!,@ etc. )

String is used in operation, it is called as **value** but variable will never involve in any operation. Variable is used to store the value it may be string and digit.

**3. Describe three different data types.**

Integer : It has only integer value, It may be positive or negative or zero. For example 3,-3,0 etc.

Float: It consist the value which has decimal value. Like wise 2.0,4.6 etc

String : It is universal data type and it can store anything but, It is closed by inverted commas . like wise ‘itnesh’. ’34 kumar’, ‘3’ etc

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

Expression is made up, when I write a code in single line that line is doing some operation. Those complete line of code is called expression.

There are all expression is divided on the basis of operation.

1. Arithmetic operation

For addition we use in “+” and it expression is written as a+b.

And for multiplication \*, for division /, for reminder %, flor division //, for power \*\*

1. Compression operation

Equality ==, less < , greater >, less equal to <=, greater equal to >=

1. Logical operation or Joining operation

And, or , not

1. Laslty mixed all best combination of operation is Mixed Expression.

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

Expression gives result, it will do some operation like arithmetic operation, but statement will never do any result like loop, condition, pass, continue etc.

When write spam+10 it will give 20, It’s a expression.

But when I write any for the range of spam it never give any result. Its statement.

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

**bacon = 22**

**bacon + 1**

22

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

**'spam' + 'spamspam'** :spamspamspam

**'spam' \* 3** :spamspamspam

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

Variable name will never be number or start by any number or any spatial character.

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

Int function can be use for integer.e.g int(‘2’)=2

Float fuction can be use for floating point number. e.g float(2)=2.0

Str function can be use for string . e.g str(3)=’3’ and str(“Itnesh”)=’itnesh’

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

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

This expression gives error due to it has diffrerent data type. Operation can be done in only in same data type so 99 is digit, so I will convert the 99 into string 99 then out put would be

‘I have eaten ‘ +’99’+’ burritos’=I have eaten 99 burritos