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.

\* :-- expression

‘hello’ :-- values

-87.8 :-- values

- :-- expression

/ :-- expression

+ :-- expression

6 :-- values

2. What is the difference between string and variable?

Ans. Both are different things where string is a data type in computer programming ,this is sequence of characters and other side a variable is an abstract storage location paired with an associated symbolic name. like a=”I m string” where a is variable data type of a is string.

3. Describe three different data types.

Ans. 1.Integer 2. String 3. Float

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

Ans. An expression is a combination of operators and operands that is interpreted to produce some other value. In any programming language, an expression is evaluated as per the precedence of its operators.

5. This assignment statements, like spam = 10. What is the difference between an

expression and a statement?

Ans. A statement refers to a piece of code that executes a specific instruction or tells the computer to complete a task.

Eg. print(“hello world”)

Spam=10

An expression is a combination of operators and operands that is interpreted to produce some other value.

Eg. 10+35/7\*8

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

bacon = 22

bacon + 1

Ans. Variable bacon contain 22 because there is not any change in value of variable bacon

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

Ans.

‘spam’ + ‘spamspam’ -- ‘spamspamspam’

‘spam’\*3 -- ‘spamspamspam’

Both has same output values.

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

Ans. Because in programming we can use string character as variable name like a=10 but we can’t use any mathematical number as variable name. like 100=23342 this is invalid.

9. What three functions can be used to get the integer, floating-point number, or string

version of a value?

Ans. For interger – int() , floating point – float() , string – str()

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

‘I have eaten’ + 99 + ‘ burritos’

Ans. This expression show an error because it is not possible to add an integer and string here ‘I have eaten’ and ‘ burritos’ are strings and 99 is an integer so it causes an error. For fix this problem we can change integer 99 in string . like -- ‘I have eaten’ + ‘99’ + ‘ burritos’ now the error has short out.