

## Assignment 2 Answers:

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:**

The values are

1. Integer → -87.8 and 6

2. String → 'hello'

The Expressions are

1. \*, -, / and +

2. What is the difference between string and variable?

**Ans :**

The string is a set of character whereas the variable is a container which is used to store the values such a integer, character, string, float etc.

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

**Ans:**

The three main different data types are:

1. integer
2. float
3. string

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

**Ans:**

The expression is a combination of operator and operands.

**EG:**

`b=10`

`x=x+1`

`print(x) -->11`

It evaluates to a single value.

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

**Statement:**

The statement is used for creating variables or displaying values.

**Expression:**

The expression evaluates to a single value, and it is a combination of operator and operands

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

```
bacon = 22
```

```
bacon + 1
```

**Ans:**

Here the bacon contains 22 only. Because bacon + 1 is not assign to bacon.

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

```
'spam' + 'spamspam'
```

```
'spam' * 3
```

**Ans:**

1. 'spam' + 'spamspam' ==> spamspamspam

2. 'spam' \* 3 ==> spamspamspam

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

**Ans:**

The eggs is a valid variable because variable name can starts with  
alphabet or \_

The 100 is an invalid variable because variable name does not start with number

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

**Ans:**

1. int()
2. float()
3. str()

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

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

**Ans:**

Because the strings and number cannot be printed. We can fix that by converting int 99 into string

**Eg:**

'I have eaten, + str(99) + 'burritos'