

ASSIGNMENT – 1

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.

:- Values are ('hello'), (-87.8) and 6, remaining all are expressions.

2. What is the difference between string and variable?

:- A variable is store of information where we can store different datatypes such as int , string, Float, list etc. While string is type of variable in which particular string has been stored.

Ex. Str = 'Roshan'

3. Describe three different data types.?

:- There are different types of data types such as int, float, string, list, tuple, array-

(a) INT = It is kind of variable which generally stores positive and negative whole number
With no decimal point.

(b) STRING = it stores a collection of characters.

(c) Float = It is kind of integer of which is having decimal point.

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

:- An Expression is combination of operators and operands that is interpreted to produce some
Other value.

Ex. $A = 2 + 3.5$

In the above example we are adding to operands by addition operator which gets converted into
Another value.

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

:- The above statement is expression.

*Expression works as printing or declaring/defining any variable or by applying any operators to
variable. It gives an output for our different conditions.

Ex. $A = 23 + 34$

Print(A)

* On the other hand Statement doesn't return any thing. Basically it run the process and helps Expression to be executed.

Ex. If else statement,

While loop statement,

For loop statement,

Exception statement etc.

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

```
bacon = 22
```

```
bacon + 1
```

```
:- bacon = 22
```

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

```
:- 'spamspamspam'
```

```
'spamspamspam'
```

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

:- Because we can start variable name by alphabet or (_) underscore symbol only and variable name 100 is starts with number which is invalid. That's why eggs is valid and 100 is invalid.

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

```
'I have eaten' + 99 + 'burritos'
```

:- Here we get datatype error because we are trying to add string and int datatype.

```
'I have eaten' + '99' + 'burritos'
```