

## Assignment - 1

1) In the below element which of them are values or an expression

→

\* : expression

'hello' : value

-87.8 : value

- : expression

/ : expression

6 : value

2) What is the difference bet<sup>n</sup> string and variables

→

String

Variable

① strings are sequence of characters.

① Variable can be considered a storage container for data.

ex - your name can

i.e store the value

be considered a string

ex - name = "Aishwarya"

"Aishwarya"

3) Describe the three different data types

→ ① String Data Type -

A string may be a collection of 1 or more character put during a double quote

ex - str1 = "Hello"

② List Data Type -

A list is mutable. List are used to store multiple data at once.

ex - fruits ["Apple", "Mango", "cherries"]

### ③ Tuple data type -

Tuple defined as an ordered collection of python objects. Tuple can't be modified once created. Tuple is immutable.

ex - `Tuple = (30, 10, 15.2, "Bye")`

4) what is an expression made up of? what do all expressions do?

→ A combination of operands and operator is called expression.

ex - `x = 35` # a statement

`x = x + 10` # an expression

`print(x)`

O/P 45

5) This assignment statement like `spam = 10`. what is the difference bet<sup>n</sup> expression and a statement?

→

expression

statement

① A expression evaluate to a value

① statement execute something

② evaluation of statement does not change state

② the execution of statement changes state

③ every expression can't be statement

③ every statement can be expression

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

```
bacon = 22
```

```
bacon + 1
```

→ The bacon variable is set to 20. the `bacon + 1` expression reassign the value in bacon (that would need an assignment statement)

```
bacon = bacon + 1
```

7) what should the value of the following two terms be

→ `'spam' + 'spamspam'`

`'spam' * 3`

→ Both expression evaluate to the string `'spamspamspam'`

8) why is eggs a valid variable name while 100 is invalid

→ variable names cannot begin with a number.