

Assingment- 1 (Sahdev Saini)

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.

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'hello' **Value**

-87.8 **Value**

- **Expression**

/ **Expression**

+ **Expression**

6 **Value**

2. What is the difference between string and variable?

Ans:-

String is a collection of characters terminated at null character and Variable is the allocation of memory space which is use to store information is to reference and manipulated in computer system.

3. Describe three different data types.

Ans:-

The three Different data types are 1. Numeric 2. String 3. Boolean

1. Numeric:- Numeric data type represent the data which has a numeric value.

a. Integer :- It is used with int keyword and contains integer value .

For ex: a=120

b=2435

b. Float:- It is used with float keyword and contains float value.

For ex: a=12.5

b=676.98

c. Complex number:- It is used with complex keyword and contains complex value .

For ex:- a= 3+2i

b= 5+8j

2. String:- String data type represent the data which has a character value.

It is used with the str keyword .

For ex: name= "Sahdev saini"

3. **Boolean:-** String data type represent the data which has a Boolean value(means either 0 and 1 , or True and false).

For ex:- a= 56

Type(a)

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

Ans:-

An expression is made up of constants , variable and operators. Expression are used to compute the value and assign to some variable.

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

Ans:-

A expression evaluates at least one value but a statement doesn't.

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

```
bacon = 22
```

```
bacon + 1
```

Ans:-

23

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

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

```
'spam' * 3
```

Ans:- 'spam' + 'spamspam' = **spamspamsapm**

'spam' * 3 = **spamspamspam**

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

Ans:-

eggs :- eggs is valid variable because we can use only alphabet for creating a variable name .

100 :- we can not use only number as a variable name because complier treat it as a integer. We can use n100 as a variable name.

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

Ans:-

Int() for integer

Float() for floating-point number

Str() for string

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

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

Ans :- Because 99 is integer and we can't add integer with string