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.

*

'hello'

-87.8

-

/

    +

6

Ans- * = Multiplication Operator

'hello' = string

-87.8 = float

  -   = Subtraction Operator

 / = Division Operator

+ = Addition Operator

    6   = integer

2.What is the difference between string and variable?

Ans- Variable: Variable are symbol that is used to store data.

String: string is data which is stored in variable. String is written in " " and it is represented in text.

3. Describe three different data types.

Ans- Integers – This value is represented by int class. It contains positive or negative whole numbers (without fractions or decimals).
Example:
 a= 4
 b=5
print(a+b)
Output:
9

Float – This value is represented by the float class. It is a real number with a floating-point representation. It is specified by a decimal point.

Example :
a=2
b=4
print(a/b)

output:
2.00

List -- Lists are just like arrays, declared in other languages which is an ordered collection of data.it is stores in [ ] .

a= ["ram", "mango", 34 , 4.0 , 'city,]

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

Ans- Expression is a collection of values, variable, operators and calls to function. Expressions need to be evaluated. If we want to print an expression, the interpreter evaluates the expression and displays the result.

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

Ans- The difference between expression and statement is an expression evaluates to a single value. A statement does not. Expressions can be assigned or used as operands, while statements can only be declared.

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

bacon = 22

bacon + 1

Ans- After Run this code bacon contain 23.

bacon = 22

bacon + 1

Output:

23

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

'spam' + 'spamspam'

'spam' * 3

Ans- The values should be 'spamspamspam'

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

Ans- Because variable names cannot begin with a number.

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

Ans- The int() , float() , and str( ) functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.

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

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

Ans- Input

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

Output

```
'I have eaten 99 burritos'
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