ASSIGNMENT- 1 (PYTHON BASICS:-)

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.

Answer ‘Hello’ - is a stringe

87.8 is a float number

- substraction

/ division

+ addition

1. is a integer

2.What is the difference between string and variable?

Answer- string can be a name, statement, for example -

my name or (A) = (“devadarshan. bhadra”)

Here my ‘name’ or A is a variable in which we can consider or save the information

String is the information you are giving for the particular data ie- ‘devadarshan bhadra’.

3. Describe three different data types.

Data types

* Integer A number with no decimal points is called as integer eith it is even or odd number.

Ex- 1 , 5 ,10. A = 10:

Type(A) = integer.

* String it is statement, name.

Ex – A = “saying good morning class”

Type(A)- Str

* Float type

Float type is comes under decimal points that number contains is float type

A = 5.25 Type(A) – float

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

Answer-

X = X + 10 # This is an expression

The expression in Python produces some value or result after being interpreted by the Python interpreter.

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

Answer-

|  |  |
| --- | --- |
| **Statement in Python** | **Expression in Python** |
| A statement in Python is used for creating variables or for displaying values. | The expression in Python produces some value or result after being interpreted by the Python interpreter. |
| A statement in Python is not evaluated for some results. | An expression in Python is evaluated for some results |
| The execution of a statement changes the state of the variable. | The expression evaluation does not result in any state change |
| A statement can be an expression. | An expression is not a statement. |
| **Example :** *x*=3. **Output :** 3 | **Example**: x=3+6 **Output :** 9 |

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

bacon = 22

bacon + 1

Answer- here bacon variable is stored with the data as 22.

If run the code bacon + 1 it will be 23.

But the bacon variable contains 22 only because in python the variable already stored the information itself.

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

'spam' + 'spamspam'

'spam' \* 3

Answer- here both the two terms are;

‘spam’ + ‘spamspam ’ = ‘spamspamspam’

‘spam’ \* 3 = ‘spamspamspam’

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

Answer- variable is defined as a alphabet which contains a statement where as 100 is an integer.

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

Answer- data type functions are used to get integer, floaing point number or string version of a value.

For example int(2.0) then 2.0 is given as 2 which is an integer.

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

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

Answer- integer=99

print(f"'i have eaten'+{integer}+'burritos': ")

output 'i have eaten'+99+'burritos.'

Explaination:

we should give integer separately because integer will not concatenate with string. So using f function we can solve this coding.