

1. What are the differences between operators and values in the following?

```
# *  
print(f'Multiplication of numbers like {5} * {3} gives: {5*3}')
```

Multiplication of numbers like 5 * 3 gives: 15

```
# "hello"  
print(f'{"hello"} is of {type("hello")}')
```

hello is of <class 'str'>

```
# -87.8  
print(f'{-87.8} is of {type(-87.8)} ')
```

-87.8 is of <class 'float'>

```
# - = Operator for subtraction
```

```
# / = gives division of number and gives float of a number
```

```
# + = gives addition of number or string1. What are the differences between operators and val  
print(f'Addition of numbers like {5} + {3} gives: {5+3}')
```

```
print(f'Addition of strings like {"apple"} + {"orange"} gives: {"apple"+"orange"}')
```

Addition of numbers like 5 + 3 gives: 8

Addition of strings like apple + orange gives: appleorange

Saved successfully!



6 is of <class 'int'>

2. What is the difference between string and variable?

```
# spam = variable  
# "spam" = string
```

3. Describe three different data forms.

```
# Float, integer and strings
```

4. What makes up an expression? What are the functions of all expressions?

```
# An expression is a combination of values, variables, operators, and calls to functions.
# Function Declarations are processed before the code block is executed
```

5.5. In this chapter, assignment statements such as `spam = 10` were added. What's the difference between a declaration and an expression?

```
# Expression is a combination of variables, operations and values that yields a result value.
# spam is a declaration
# 10*20 = expression
spam = 10*20
print(spam)
```

200

6. After running the following code, what does the variable `bacon` contain? `bacon = 22` `bacon + 1`

23

23

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

"spamspamspam"

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8. Why is it that `eggs` is a true variable name but `100` is not?

```
# Python doesn't allow numbers to be set as variables.
```

10. What is the error caused by this expression? What would you do about it?

```
# 'I have eaten ' + 99 + ' burritos.' = TypeError: can only concatenate str (not "int") to str
# fixing this
'I have eaten ' + "99" + ' burritos.'
```

It has been 20 minutes!

Saved successfully!

