

# Data Types

February 25, 2023

## 1 Adding two numbers

```
[1]: num1 = 2.5
      num2 = 3.7

      #add two numbers
      sum = num1 + num2

      #print the sum
      print('the sum of {0} and {1} is {2}'.format(num1, num2, sum))
```

the sum of 2.5 and 3.7 is 6.2

## 2 Python Identifiers

```
[2]: number = 5
```

```
[3]: number
```

```
[3]: 5
```

```
[4]: name@ = 'Fred'
```

```
File "/var/folders/6t/xy3pcrwn7r50cmfvm_58m4xm0000gn/T/ipykernel_1317/
↳2686325723.py", line 1
    name@ = 'Fred'
      ^
SyntaxError: invalid syntax
```

```
[5]: 1variable = "name"
```

```
File "/var/folders/6t/xy3pcrwn7r50cmfvm_58m4xm0000gn/T/ipykernel_1317/
↳3575655595.py", line 1
    1variable = "name"
      ^
```

```
SyntaxError: invalid syntax
```

```
[6]: variable1 = "name"
```

```
[7]: variable1
```

```
[7]: 'name'
```

### 3 Statements

```
[7]: x = 10
```

```
[8]: x
```

```
[8]: 10
```

```
[9]: x = 1 + 2 + 3 + \  
      4 + 5 + 6 + \  
      7 + 8 + 9
```

```
[10]: x
```

```
[10]: 45
```

```
[12]: x = ( 5 + 10 +  
           15 + 20 +  
           25)
```

```
[13]: x
```

```
[13]: 75
```

```
[15]: fruits = ["banana",  
                "apple" ,  
                "lemon"]
```

```
[16]: fruits
```

```
[16]: ['banana', 'apple', 'lemon']
```

### 4 Indentation

```
[18]: for i in range(1, 10):  
      print(i)  
      if i == 6:
```

```
break
```

```
1  
2  
3  
4  
5  
6
```

## 5 Comments

```
[19]: #print out hi  
print("hi")
```

```
hi
```

```
[20]: #This is the first line  
#and this is the second line  
#for multiple lines comment
```

```
[1]: #this code adds two numbers  
number1 = 30  
number2 = 20.2  
sum = number1 + number2
```

```
[18]: #This code Adds an integer to the sum  
sum = sum + 5
```

```
[19]: sum
```

```
[19]: 55.2
```

```
[20]: """gedtgeyhrfh"""
```

```
[20]: 'gedtgeyhrfh'
```

```
[ ]: # a = 1  
# b = 2  
# c = a + b
```

```
[ ]:
```

```
[ ]:
```

```
[ ]:
```

```
[ ]:
```

[ ]:

[ ]: