

Variables

February 25, 2023

```
[1]: number = 5
```

```
[2]: number
```

```
[2]: 5
```

```
[3]: number = 10  
number = 11  
number = 12
```

```
[4]: number
```

```
[4]: 12
```

1 Assign values to variables

```
[7]: website = "google.com"  
print(website)
```

```
google.com
```

```
[6]: website
```

```
[6]: 'google.com'
```

```
[8]: website = "apple.com"
```

```
[9]: website
```

```
[9]: 'apple.com'
```

```
[11]: #Assign multiple values in the same line  
num1, num2, num3, name = 3,5,10,"FRED"  
print(num1)  
print(num2)  
print(num3)  
print(name)
```

```
3
5
10
FRED
```

```
[12]: a = b = c = "equal"
      print(a)
      print(b)
      print(c)
```

```
equal
equal
equal
```

2 Constants

```
[13]: PI = 3.14
      GRAVITY = 9.7
      print(PI)
      print(GRAVITY)
```

```
3.14
9.7
```

3 Numeric Literals

```
[19]: num1 = 0b1010 #binary
      num2 = 50 #decimal
      num3 = 0o310 #octal
      num4 = 0x12c #Hexa
      num5 = 11.7 #float literal
      num6 = 1.5e2
      num7 = 3.2j #complex
      print(num1 , num2, num3, num4)
      print(num5, num6)
```

```
10 50 200 300
11.7 150.0
```

```
[21]: print(num7, num7.imag, num7.real)
```

```
3.2j 3.2 0.0
```

4 String literals

```
[23]: msg = "Python is Fun"
      char = "I"
      multi_line = """This is
      multiple line"""
      unicode = u"\u00d5nic\u00f6de"
      raw_string = r"raw \n string!"

      print(msg)
      print(char)
      print(multi_line)
      print(unicode)
      print(raw_string)
```

```
Python is Fun
I
This is
multiple line
Unicode
raw \n string!
```

5 Boolean literals

```
[24]: a = (1 == True)
      b = (1 == False)
      c = True + 4
      d = False + 6
```

```
[25]: a
```

```
[25]: True
```

```
[26]: b
```

```
[26]: False
```

```
[27]: c
```

```
[27]: 5
```

```
[28]: d
```

```
[28]: 6
```

6 Special literals

```
[30]: drink = "Available"
      food = None

      def new_menu(a):
          if a == drink:
              print(drink)
          else:
              print(food)

      new_menu(drink)
      new_menu(food)
```

Available
None

7 Literal Collections

```
[31]: fruits = {"fig", "lemon", "banana"} #list
      numbers = {1,2,3,4} #tuple
      words = {"first word" : "Banana" , "Second word" : "Hi"} #dict
      chars = {'A', 'B' , 'C'} #set
```

```
[33]: print(fruits)
      print(numbers)
      print(words)
      print(chars)
```

{'banana', 'fig', 'lemon'}
{1, 2, 3, 4}
{'first word': 'Banana', 'Second word': 'Hi'}
{'C', 'B', 'A'}

```
[ ]:
```