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Python Codes

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Wed, Aug 11, 2021 at 8:13 PM

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#Examples of Data Types

#Numeric

#1. Integer

```
a = 5
```

```
print(" value of a is ",a," of ", type(a))
```

#2. Float

```
b = 5.0
```

```
print(" value of b is ",b," of ", type(b))
```

#3. Complex

```
c = 2 + 4j
```

```
print(" value of c is ",c," of ", type(c))
```

#sequence type

#1. String

```
String1 = 'Single Quotes' #Creating a string using single quotes
```

```
print(String1, type(String1))
```

```
String2 = "Double Quotes" #Creating a string using double quotes
```

```
print(String2, type(String2))
```

```
String3 = """Triple Quotes""" #Creating a string using triple quotes
```

```
print(String3, type(String3))
```

#2.List

```
List1 = [] # Creating a blank List
```

```
print("Initial blank List: ", List1)
```

```
List2 = ['Welcome to Moolya'] # Creating a List with the use of a String
```

```
print(List2)
```

```
List3 = ["Ram", "Sam", "Sita"] # Creating a List with multiple values
```

```
print(List3[0])
```

```
print(List3[2])
```

```
List4 = [['Aarti', 'Kumari'], ['Kashyap']] # Creating a Multi-Dimensional List
```

```
print(List4)
```

#3. Tuple

```
Tuple1 = () # Creating an empty tuple
```

```
print("Empty Tuple: ", Tuple1)
```

```
Tuple2 = ('Hello', 'Bye') # Creating a Tuple with the use of Strings
```

```
print("Tuple with the use of String: ", Tuple2)
```

```
list1 = [1, 2, 4, 5, 6] # Creating a Tuple with the use of list
```

```
print("Tuple using List: ",(tuple(list1)))
```

```
Tuple3 = tuple('Hii') # Creating a Tuple with the use of built-in function
```

```
print("Tuple with the use of function: ", (Tuple3))
```

```
# Creating a Tuple with nested tuples
Tuple1 = (0, 1, 2, 3)
Tuple2 = ('python', 'geek')
Tuple3 = (Tuple1, Tuple2)
print("Tuple with nested tuples: ", (Tuple3))
```

```
#Boolean
```

```
print(10 > 19)
print(10 == 19)
print(10 < 19)
```

```
#set
```

```
set1 = set() # Creating an empty Set
print("Initial blank Set: ", set1)
```

```
set2 = set("Creating using string") # Creating a Set with the use of a String
print("Set with the use of String: ", set2)
```

```
set3 = set(["Go", "Went", "Gone"]) # Creating a Set with the use of a List
print("Set with the use of List: ", set3)
```

```
set4 = set([1, 2, 'three', 4, 'Five', 6, 'seven']) # Creating a Set with a mixed type of values
print("Set with the use of Mixed Values", set4)
```

```
#Dictionary
```

```
Dict1 = {} # Creating an empty Dictionary
print("Empty Dictionary: ", Dict1)
```

```
Dict2 = {1: 'One', 2: 'Two', 3: 'Three'} # Creating a Dictionary with Integer Keys
print("Dictionary with Integer Keys: ", Dict2)
```

```
Dict3 = {'Name': 'Aarti', 1: [1, 2, 3, 4]} # Creating a Dictionary with Mixed keys
print("Dictionary with the use of Mixed Keys: ", Dict3)
```

```
Dict4 = dict({1: 'One', 2: 'Two', 3: 'Three'}) # Creating a Dictionary with dict() method
print("\nDictionary with the use of dict(): ", Dict4)
```

```
Dict5 = dict([(1, 'One'), (2, 'Two')]) # Creating a Dictionary with each item as a Pair
print("Dictionary with each item as a pair: ", Dict5)
```

```
#Flow Control
```

```
#if-elif-else
```

```
a = 10
b = 30
if b > a:
    print("b is greater than a")
elif a == b:
    print("a and b are equal")
else:
    print("a is greater than b")
```

```
#while loop
```

```
i = 0
while i < 10:
    i += 1
    if i % 2 == 0:
        continue
    elif i > 7:
        break
```

```
    else:
        pass
    print(i)

#for loop
fruits = ["apple", "mango", "banana", "cherry"]
for x in fruits:
    if x == "banana":
        break
    print(x)
```