VARIABLES PARTS (DICTIONARIES)

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Programming And Scripting



Variable type	Create	Function
int float complex	i = 3 fl = 3.2 x = 1j	int() float()
str	name = 'Joe' name = "Joe"	str()
bool	ready = true ready = false	bool
list tuple range	ages = [] months = () x = range(10)	
dict	person = { }	
Set, frozen set	months = {}	
Bytes, bytearray, memoryview	X = b''hello''	



DICT

Defined by

```
\mathbf{x} = \{\}
```

```
x = {\text{"varl": "valuel", "var2": 123, "var3": [], "var4": {}}}
```

Add/ access values with square brackets

```
x["varl"] = "newValue"
```

• Can have any variable type as a value, so we can have dicts in dicts

- Use the get function if you are not sure that the key exists
- Use the update function if want to add key values using the format



EXAMPLE

Data is of type Dictionary

Tags is of type Array

```
sampleRequest={
    "Data": {
        "Tags": ['debit', 'checking'],
        "InstructedAmount": {
            "Amount": 100,
            "Currency": "GBP"
        "DebtorAccount": {
            "Identification": "30130900103004",
            "Name": "DName"
        "CreditorAccount": {
            "Identification": "30180500016825",
            "Name": "CName"
        "Risk": "Risk"
print(sampleRequest['Data']['InstructedAmount']['Amount'])
```

Amount is an int in an Dictionary which is in a dictionary



LOOPING DICTIONARIES

By keys

```
for x in thisdict:
    print(thisdict[x])
```

By keys and values

```
for x, y in thisdict.items():
    print(x, y)
```



GO FOR A WALK

