PYTHON PROGRAMMING

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Identifiers

- A Python identifier is a name used to identify a variable, function, class, module or other object.
- The name can start with a letter or underscore followed by letters, digits or underscores.
- Python does is case sensitive.
- Indentation is a must in python.

Python Strings

• Continuous set of characters enclosed in quotation marks.

```
#!/usr/bin/python
str = "good morning all...!"
print str  # display the string
print str[0] # First letter of string
print str[3:7] #slicing
print str[6:] # print string starting from 6 th character
print str * 2 # string will print twice
print str + "How are you?" # Concatenate strings
```

output: good morning all...! g d mo orning all...! good morning all...!good morning all...! good morning all...!How are you?

Lists

- Compound datatype
- Comma separated items enclosed within square brackets.
- Similar to array in C.

Program:

```
#!/usr/bin/python
list1 = [ 'aaa','bbb', 12, 456 , 'zzz' ]
list2 = [ 'aa','bb' ]

print list1
print list2
print list1[0]
print list1[2:3]  # print list[2]
print list1[2:4]  # print list[2], list[3]
print list1 * 2  # print list1 twice
```

output:

```
['aaa', 'bbb', 12, 456, 'zzz']
['aa', 'bb']
aaa
[12]
[12, 456]
['aaa', 'bbb', 12, 456, 'zzz', 'aaa', 'bbb', 12, 456, 'zzz']
['aaa', 'bbb', 12, 456, 'zzz', 'aa', 'bb']
```

Tuples

- It is a datatype similar to list.
- Consists of a number of values separated by commas enclosed within parentheses.

Program:

```
#!/usr/bin/python

tup1 = ('aaa','bbb',12,456 ,'zzz')

tup2 = ('aa','bb')

print tup1

print tup2

print tup1[0]

print tup1[2:3]  # print list[2]

print tup1[2:4]  # print list[2],list[3]
```

```
print tup1 * 2  # print list1 twice

print tup1 + tup2  # contenate list1 and list2
```

output:

```
('aaa', 'bbb', 12, 456, 'zzz')
('aa', 'bb')
aaa
(12,)
(12, 456)
('aaa', 'bbb', 12, 456, 'zzz', 'aaa', 'bbb', 12, 456, 'zzz')
('aaa', 'bbb', 12, 456, 'zzz', 'aa', 'bb')
```

Dictionary

- A kind of hash table type.
- Keys and values will be there.
- Both keys and values are enclosed in curly braces.

Program:

```
#!/usr/bin/python
dic = {}
dic[0] = 'hi'
dic['one'] = 256
dic2 = { 'Name':'Anu','Age' : 2}
print dic2  # print the dictionary
print dic.keys()  # print all keys
```

print dic.values()

print all values

output:

{'Age': 2, 'Name': 'Anu'} [0, 'one'] ['hi', 256]