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
print list1 + list2 # 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']
```

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]
```

If...else

Program:

To find biggest among two numbers.

```
a=5
b=6
if a>b:
    print("{} is bigger".format(a))
else:
    print("{} is bigger".format(b))
```

output:

6 is bigger

When inputs are taking from user

Program: To find biggest among two numbers. a=input("Enter number1 : ") b=input("Enter number2 : ") if a>b: print("{} is bigger".format(a)) else: print("{} is bigger".format(b)) output: Enter number1: 45 Enter number2:23 45 is bigger Program: Find the biggest among 3 numbers.

a=input("Enter number1 : ")

b=input("Enter number2 : ")

```
c=input("Enter number3 : ")

if (a>b) and (a>c):
    print("{} is bigger".format(a))

elif (b>a) and (b>c):
    print("{} is bigger".format(b))

else:
    print("{} is bigger".format(c))

output:
```

Enter number1:4

Enter number2:34

Enter number3:2

34 is bigger