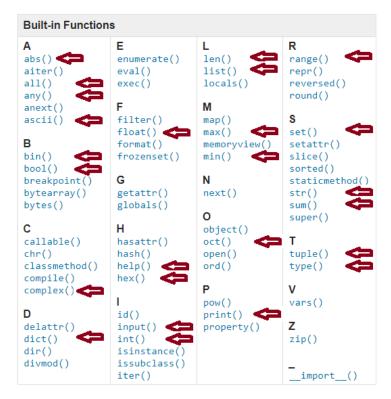


## **Built-in Functions**

The Python interpreter has a number of functions and types built into it that are always available. They are listed here in alphabetical order.



```
1947
all([0,1,2,3,4])
False
all([0,0,False,0,False])
False
all([1,2,3,4,5])
True
any([0,1,0,0,0,1,2,3])
True
any([0,0,False,0,False])
False
any([-1,-2,-3,-4,-5,6,7,8])
True
ascii('a')
{"type":"string"}
ascii('&')
{"type":"string"}
ascii('¢')
{"type":"string"}
ascii('P')
{"type":"string"}
a = 101
print("Binary ", bin(a))
print("Octa ", oct(a))
print("Hexa ", hex(a))
Binary 0b1100101
Octa 0o145
Hexa 0x65
a = 101
print("Integer ", int(a))
```

```
print("Float ", float(a))
print("Complex ", complex(a))
print("Boolean ", bool(a))
print("String ", str(a))
Integer 101
Float 101.0
Complex (101+0j)
Boolean True
String 101
a = 3.14
print("Integer ", int(a))
print("Float ", float(a))
print("Complex ", complex(a))
print("Boolean ", bool(a))
print("String ", str(a))
Integer 3
Float 3.14
Complex (3.14+0j)
Boolean True
String 3.14
var str = "Python Programming"
print("List ", list(var str))
print("Tuple ", tuple(var_str))
print("Set ", set(var str))
List ['P', 'y', 't', 'h', 'o', 'n', ' ', 'P', 'r', 'o', 'g', 'r', 'a', 'm', 'm', 'i', 'n', 'g']
Tuple ('P', 'y', 't', 'h', 'o', 'n', ' ', 'P', 'r', 'o', 'g', 'r', 'a', 'm', 'm', 'i', 'n', 'g')
Set {'y', 't', 'm', 'a', \( P', \' ', 'n', 'r', 'i', 'g', 'h', 'o' \)
var lst = [(1,2),(3,4),(5,6),(7,8),(9,0)]
print("Dictionary ", dict(var lst))
Dictionary {1: 2, 3: 4, 5: 6, 7: 8, 9: 0}
print("Python Programming")
Python Programming
var = input("Please enter value ")
var
Please enter value Python Programming
```

```
{"type": "string"}
for i in range (0, 10, 1):
  print("for i in range(0,10,1): ", i)
for i in range(0,10,1):
for i in range(0,10,1):
                          1
for i in range(0,10,1):
                          2
for i in range(0,10,1):
                          3
for i in range(0,10,1):
                          4
for i in range(0,10,1):
                          5
for i in range(0,10,1):
                          6
for i in range(0,10,1):
                          7
for i in range(0,10,1):
                          8
for i in range(0,10,1):
for i in range (10,0,-1):
  print("for i in range(0,10,1): ", i)
for i in range(0,10,1):
                          10
for i in range(0,10,1):
                          9
for i in range(0,10,1):
                          8
for i in range(0,10,1):
                          7
for i in range(0,10,1):
                          6
for i in range(0,10,1):
                          5
for i in range(0,10,1):
                          4
for i in range(0,10,1):
                          3
for i in range(0,10,1):
                          2
for i in range(0,10,1):
                          1
for i in range (0, 101, 10):
  print("for i in range(0,10,1): ", i)
for i in range(0,10,1):
                          0
for i in range(0,10,1):
                          10
for i in range(0,10,1):
                          20
for i in range(0,10,1):
                          30
for i in range(0,10,1):
                          40
for i in range(0,10,1):
                          50
for i in range(0,10,1):
                          60
for i in range(0,10,1):
                          70
for i in range(0,10,1):
                          80
for i in range(0,10,1):
                          90
for i in range(0,10,1):
                          100
for i in range (0, 20, 2):
  print("for i in range(0,10,1): ", i)
for i in range(0,10,1):
for i in range(0,10,1):
                          2
for i in range(0,10,1):
                          4
for i in range(0,10,1):
```

```
for i in range(0,10,1):
                         8
for i in range(0,10,1):
                         10
for i in range(0,10,1):
                         12
for i in range(0,10,1):
                         14
for i in range(0,10,1):
                         16
for i in range(0,10,1):
                         18
var_lst = [1,3,5,7,9,11,13,15,17,19,21]
max(var_lst)
21
var_lst = [1,3,5,7,9,11,13,15,17,19,21]
min(var_lst)
1
var_lst = [1,3,5,7,9,11,13,15,17,19,21]
len(var_lst)
11
var_int = 1947
type(var_int)
int
help(type)
help(print)
```