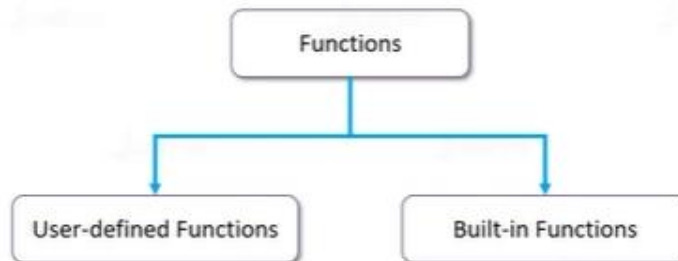


Functions in Python

Functions in Python



A function is a block of organized, reusable set of instructions that is used to perform some related actions



Functions in Python



These functions are created by users

User-defined Functions

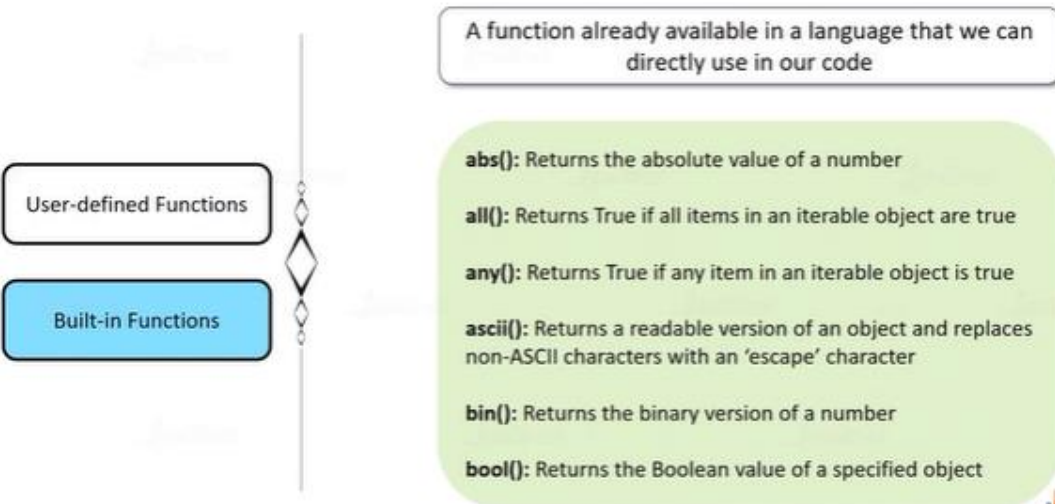
Built-in Functions

```
#Syntax
...
def func_name (arg1, arg2, arg3, ...):
    → statements_
    → return [expression]
...
```

Example

```
def add (a,b):
    sum = a + b
    return sum
```

Functions in Python



Functions in Python



Lambda Function

An anonymous function, i.e., a function having no name. A Lambda function cannot contain more than one expression

```
#Syntax
...
lambda arguments : expression
...

x = lambda a : a + 10
print(x(5))
```

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Functions vs Lambda Functions

```
#Function
def multiply(x, y):
    return x * y
```

```
#Lambda Function
r = lambda x, y: x * y
r(12, 3) # call the lambda function
```

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Power of Lambda: An anonymous function inside another function

```
def myfunc(n):
    return lambda a : a + n
mySum = myfunc(3)
print(mySum(10))
```

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