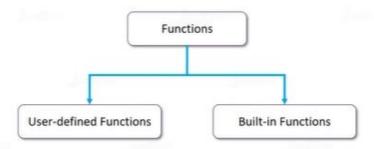
Functions in Python

Functions in Python



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

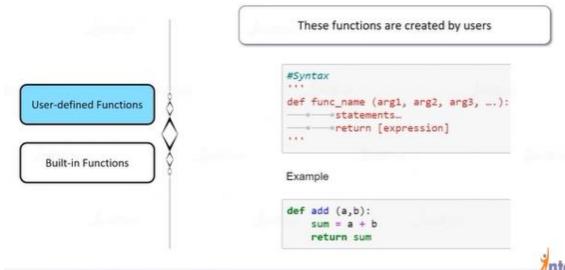


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Functions in Python

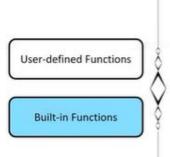




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Functions in Python





A function already available in a language that we can directly use in our code

abs(): Returns the absolute value of a number

all(): Returns True if all items in an iterable object are true

any(): Returns True if any item in an iterable object is true

ascii(): Returns a readable version of an object and replaces non-ASCII characters with an 'escape' character

bin(): Returns the binary version of a number

bool(): Returns the Boolean value of a specified object



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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))
```



Functions in Python



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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