

Prof.Amar Panchal | 9821601163 | www.amarpanchal.com

Defining a Function

► Function blocks begin with the keyword **def** followed by the function name and parentheses (())

```
def functionname( parameters ):
    "function_docstring"
    function_suite
    return [expression]
```

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code

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The Anonymous Functions

- You can use the lambdakeyword to create small anonymous functions.
- Lambda forms can take any number of arguments but return just one value in the form of an expression. They cannot contain commands or multiple expressions.
- An anonymous function cannot be a direct call to print because lambda requires an expression.
- Lambda functions have their own local namespace and cannot access variables other than those in their parameter list and those in the global namespace.
- Syntax
- ▶ lambda [arg1 [,arg2,....argn]]:expression

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Scope of Variables

- Global variables
- Local variables

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```
total = 0

def sum( arg1, arg2 ):
   total = arg1 + arg2; # Here total is local variable.
   print ("Inside the function local total : ", total)
   return total

sum( 10, 20 )
   print ("Outside the function global total : ", total )

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```