python Workshop

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Functions

What is function?

reusable pieces of code

Types of function

built-in functions: provided as a part of Python Language.

Example : type(), len(), max() etc

user-defined functions: defined by us.

user-defined Functions

Defined using def keyword

Called by using function name, parentheses, and arguments passed into it.

Functions Example

Creating your own simple function

```
OUTPUT
def bigger(num1, num2):
    if(num1 > num2):
                                                   6
        return num1
                                                   20
    else:
                               Return Values
        return num2
larger = bigger(5,6)
print larger
                                Arguments
larger = bigger(10,20)
print larger
                    Function name
```

Creating your own simple function

```
Function Name
                  Parameters
                                                  OUTPUT
def bigger(num1, num2):
    if(num1 > num2):
                                                  6
        return num1
                                                   20
    else:
                               Return Values
        return num2
larger = bigger(5,6)
print larger
larger = bigger(10,20)
print larger
```

Important Points

Defining a function only gives it a name, specifies the parameters that are to be included in the function and structures the blocks of code. It is not executed this moment.

Creating your own simple function

```
def areaOfCircle(radius):
    area = 3.14 * radius ** 2
                                                 OUTPUT
    return area
                                                 452.16
def areaOfSquare(side):
                                                 30
    area = side ** 2
                                                 100
    return area
def areaOfRectange(1,b):
    area = 1 * b
    return area;
print areaOfCircle(12)
print areaOfRectange(5,6)
print areaOfSquare(10)
```

04-03 Area.py

Important Points

If function don't contain return, it will return None

Assignment 4

Write a program to find factorial of the given number entered by the user using functions using recursion.

Thank You

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Assignments & Presentations:

https://github.com/rahulcomp24/Python-Workshop-CS-Dept-BMSCE-May-2016