Activity: Python Functions

ISAT 252 – Spring 2015

# Instructions:

* Write a program that computes the area of a circle. Prompt the user to enter the radius
* Debug and Test your program.
* Save the program as circle\_3.py
* Put it on the FTP site. Make sure you create a folder called Circle Activity 3 and put the entire folder with your code on the FTP site

Your program should be readable with proper comments. ALL of your programs should start with a comment section that explains the purpose of the program and gives your name and software language being used.

# circle\_3.py

* Modify your program to use functions that return values
  + The main() function will get the input(radius) and pass it to two functions:
    - a function you create called compute\_area
    - a function you create called compute\_circumference
  + Each function should do the processing to compute the required quantity and **return the computed value** to the calling function main()
  + The main function should then display the results formatted to two decimal places
  + Note that the variables *area and circumference* should be created locally in all functions that use them *but the constant* PIshould be global.
* Your program should be readable with proper comments. ALL of your programs should start with a comment section that explains the purpose of the program and gives your name and software language being used.
* #Purpose of Program
* #Programmer: [Your Name]
* #Language: Python 3.4
* #circle\_3.py

def compute\_area(radius):

#variables and constants

#process – compute the area and circumference of the circle

#output -display the result

def compute\_circumferenceradius):

#variables and constants

#process – compute the area and circumference of the circle

#output -display the result