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**Module 3: Programming**

**CSS 225**

**Problem 1**: Write a program that prints “Hello World” to the screen.

Print(“Hello World”)

**Problem 2**: Write a program that asks the user for their name and greats them with their name.

Name = input(“Enter your name: “)

Print(“Hello “ + name)

**Problem 3**: Modify the previous program such that only the users you and your instructor are greeted with their names.

name = input(**"Enter your name "**)  
if name == **"Joel"** or == **"Antonio"**:  
 print(**"Hello "** + name)

*side note*

*= sign means assignment*

*== signs mean comparison*

**Problem 4** - Write a program that will compute the area of a circle. Prompt the user to enter the radius and print a nice message back to the user with the answer.

from math import pi  
r = float(input (**"Input the radius of the circle : "**))  
print (**"The area of the circle with radius "** + str(r) + **" is: "** + str(pi \* r\*\*2) + **" we hope this was helpful! "**)

**Problem 5** - Write a program that will compute MPG for a car. Prompt the user to enter the number of miles driven and the number of gallons used. Print a nice message with the answer.

miles = float(input(**"How many miles did you drive?"**)) gallons = float(input(**"How many gallons of gas did you use?"**)) mpg = (miles / gallons)print(**"Your car delivers"**, mpg, **"miles per gallon of fuel."**)

**Problem 6** - Write a program that will convert degrees Fahrenheit to degrees Celsius.

deg\_fahrenheit = float(input(**"How many degrees Fahrenheit is it outside?"**))  
deg\_celsius = (deg\_fahrenheit - 32) / 1.8  
print(**"It is"**, deg\_celsius, **"degrees Celsius outside."**)

**Problem 7**: It is possible to name the days 0 through 6 where day 0 is Sunday and day 6 is Saturday. If you go on a wonderful holiday leaving on day number 3 (a Wednesday) and you return home after 10 nights you would return home on a Saturday (day 6) Write a general version of the program which asks for the starting day number, and the length of your stay, and it will tell you the number of day of the week you will return on.

start\_day = int(input(**"from 0-6 what day is it? "**))  
days\_to\_wait = int(input(**"how many days are you gone? "**))  
end\_day = (start\_day + days\_to\_wait) % 7  
print(end\_day)