

Programming Exercise 3-7

```
# Global constants for calories
CALORIES_FROM_FAT = 9
CALORIES_FROM_CARBS = 4

# main module
def main():
    # Local variables
    gramsFat = 0.0
    gramsCarbs = 0.0
    caloriesFat = 0.0
    caloriesCarbs = 0.0

    # Get grams fat
    gramsFat = float(input("Enter the fat grams consumed: "))

    # Get grams carbs
    gramsCarbs = float(input("Enter the carbohydrate grams consumed: "))

    # Calculate calories from fat
    caloriesFat = gramsFat * CALORIES_FROM_FAT

    # Calculate calories from carbs
    caloriesCarbs = gramsCarbs * CALORIES_FROM_CARBS

    # print calories
    showCarbs(gramsFat, gramsCarbs, caloriesFat, caloriesCarbs)

# The showCarbs function accepts the number of grams of fat and of carbs,
# as well as the calories from fat and from carbs, as arguments
# and displays the resulting calories
def showCarbs(gramsFat, gramsCarbs, caloriesFat, caloriesCarbs):
    print ("Grams of fat: ", format(gramsFat, '.2f'))
    print ("Fat calories: ", format(caloriesFat, '.2f'))
    print ("Grams of carbs: ", format(gramsCarbs, '.2f'))
    print ("Carb calories: ", format(caloriesCarbs, '.2f'))
```

Global Constant Real
CALORIES_FROM_FAT
CALORIES_FROM_CARBS

