```
# Alex Rizk
# This program will be a budget and expenses calculator. It will calculate
# (continued) common expenses and bills that one would have in a month.
# It will also calculate how much you make and determine if you have excess
# (continued)money or not. Then it will tell you your tax bracket.
# The next couple lines will just assign variables to something that you input,
# (continued)then add up all the variables and print it.

print("Hello. Welcome to the Expenses Calculator")
input("Press enter to continue")


def expenses(mortgage_or_rent, house_insurance, electric, utilities,
             car_payment, car_insurance, gas, phone, food, entertainment,
             clothing, savings):
    expense_total = (mortgage_or_rent + house_insurance + electric + utilities
                     + car_payment + car_insurance + gas + phone + food +
                     entertainment + clothing + savings)
    total = expense_total
    return total


def main():
    mortgage_or_rent = float(input("Enter the cost of your mortgage/rent for "
                                   "the month: $"))
    house_insurance = float(input("Enter the cost of your house insurance for "
                                  "the month: $"))
    electric = float(
        input("Enter the cost of your electric bill for the month:"
              " $"))
    utilities = float(input("Enter the cost of your utility bill for the "
                            "month: $"))
    car_payment = float(input("Enter the cost of your car payment for the "
                              "month: $"))
    car_insurance = float(input("Enter the cost of your car insurance for the "
                                "month: $"))
    gas = float(input("Estimate the amount you spend for gas in a month: $"))
    phone = float(input("Enter the cost of your phone and/or cell phone bill "
                        "for the month: $"))
    food = float(input("Enter the cost you spend on food/groceries for the "
                       "month: $"))
    entertainment = float(input("Enter the cost spent on entertainment for "
                                "the month: $"))
    clothing = float(input("Enter the amount you spend for clothing for the "
                           "month: $"))
    savings = float(input("Enter the amount you set aside for savings for the "
                          "month: $"))
    expense_total = expenses(mortgage_or_rent, house_insurance, electric,
                             utilities, car_payment, car_insurance, gas,
                             phone, food, entertainment, clothing, savings)
    print("Total expenses for the month: $" + format(expense_total, '.2f'))
    # formats total for 2 decimal places


main()
# The next lines of code will now calculate the amount of money you make.
salaried_or_wage = None
while salaried_or_wage not in ("salaried", "wage"):
    # the 2 previous lines of code i got the idea from Martin O'Shea,
    # Sept 20, 2017, https://www.quora.com/I%E2%80%99m-new-to-Python-how-can
    # -I-write-a-yes- no-question It creates a loop that keeps asking the
    # question if you don't give the right answer
    salaried_or_wage = input("Are you a salaried employee or wage employee? "
                             "Enter salaried or wage. ")
    if salaried_or_wage == "salaried":
```

```
        # The next lines calculate your net monthly salary, taking taxes out of
        # your gross salary
        gross_annual_salary = float(input("Enter your gross annual salary: "))
        gross_monthly_salary = (gross_annual_salary / 12)
        taxes = (gross_monthly_salary * 0.1029)
        # 10.29% federal income tax, no state tax in florida
        social_security = (gross_monthly_salary * 0.0620)
        # 6.20% taken out of social security
        medicare = (gross_monthly_salary * 0.0145)
        # 1.45% taken out for medicare
        net_monthly_salary: float = (
                gross_monthly_salary - taxes - social_security
                - medicare)
        net_weekly_salary = (net_monthly_salary // 4)
        print(
            "Your net monthly income is $" + format(net_monthly_salary, '.2f'))
        # The next lines apply to wage workers. You will get this option if you
        # answer "wage" on the question "Are you a salaried employee or wage
        # employee?" above.
    elif salaried_or_wage == "wage":
        hours = int(input("How many hours do you work a day? "))
        days = int(input("How many days do you work per week? "))
        pay = float(input("How much do you earn per hour worked? "))
        gross_weekly_pay = (hours * days * pay)
        taxes = (gross_weekly_pay * 0.1029)
        social_security = (gross_weekly_pay * 0.248997992 ** 2)
        medicare = (gross_weekly_pay * 0.0145)
        net_weekly_pay = (gross_weekly_pay - taxes - social_security -
                          medicare)
        net_monthly_pay = (net_weekly_pay * 4)
        net_weekly_pay = (net_monthly_pay % 4)
        print("Your net monthly income is $" + format(net_monthly_pay, '.2f'))
    else:
        print("Enter salaried or wage: ")
input("Press enter to continue")
input("Now lets find out if you earn enough to cover your expenses. Press "
      "enter.")
from expenses import expenses_total

if salaried_or_wage == "salaried":  # if you picked salaried earlier, your
    # leftover money will be calculated here.
    leftover = (net_monthly_salary - expenses_total)
    print("You have $" + format(leftover, '.2f'))
    if leftover < 0 and leftover != 0:  # If your amount is negative this is
        # not good. So the program will tell you.
        print("You need to manage your budget better.")
    else:
        print("Good job! You have leftover.")
elif salaried_or_wage == "wage":  # if you picked wage earlier, your leftover
    # money will be calculated here.
    leftover2 = (net_monthly_pay - expenses_total)
    print("You have $" + format(leftover2, '.2f'))
    if leftover2 <= 0 or leftover2 != 0:
        print("You need to manage your budget better.")
    else:
        print("Good job! You have leftover.")
input("Press enter to continue")
five_year_income = 5
for x in range(1):  # Only works for one entry
    filing = None
    while filing not in ("single", "joint", "hoh"):  # loop that is used if the
        # user does not enter the correct input. It will re ask the question
        filing = input("Are you filing your tax as single, joint(married), or"
                       " head of household? Enter, single, joint or hoh. ")
        # The outcome depends on how you file you tax as
```

```
        income = int(input("Enter your income: $"))  # Annual income
        if filing == "single":  # for single filers
            if income >= 518401:
                print("You're in the 37% bracket.")
            elif 207351 <= income <= 518400:
                print("You're in the 35% bracket.")
            elif 163301 <= income <= 207350:
                print("You're in the 32% bracket.")
            elif 85526 <= income <= 163300:
                print("You're in the 24% bracket.")
            elif 40126 <= income <= 85525:
                print("You're in the 22% bracket.")
            elif 9876 <= income <= 40125:
                print("You're in the 12% bracket.")
            else:
                print("Your in the 10% bracket.")
        # All the numbers are the tax brackets depending on how much you make
        elif filing == "joint":  # for joint filers
            if income >= 622051:
                print("You're in the 37% bracket.")
            elif 414701 <= income <= 622050:
                print("You're in the 35% bracket.")
            elif 326601 <= income <= 414700:
                print("You're in the 32% bracket.")
            elif 171051 <= income <= 326600:
                print("You're in the 24% bracket.")
            elif 80251 <= income <= 171050:
                print("You're in the 22% bracket.")
            elif 19751 <= income <= 80250:
                print("You're in the 12% bracket.")
            else:
                print("Your in the 10% bracket.")
        elif filing == "hoh":  # for head of household filers
            if income >= 518401:
                print("You're in the 37% bracket.")
            elif 207351 <= income <= 518400:
                print("You're in the 35% bracket.")
            elif 163301 <= income <= 207350:
                print("You're in the 32% bracket.")
            elif 85501 <= income <= 163300:
                print("You're in the 24% bracket.")
            elif 53701 <= income <= 85500:
                print("You're in the 22% bracket.")
            elif 14101 <= income <= 53700:
                print("You're in the 12% bracket.")
            else:
                print("Your in the 10% bracket.")
        else:
            print("Enter, single, joint or hoh." * 3)
five_year_income *= income
# shortcut operator takes the variable which is equal to 5, and multiplies
# (continued) itself by the income, to get your 5 year income
print("The amount you make in 5 years excluding taxes is $", five_year_income)
```