

```
# This program will take user inputs about USA road trip and display the
# total costs and each participants share of the trip in USD.
# Developer: Angela Tackett      CMIS102      03JUL2022
```

```
Function Welcome
    #Display welcome
```

```
Function Inputs
    #prompt user for total people on trip
    #prompt user for length of trip in days
    #prompt user for daily food costs (while loop)
    #prompt user for daily gas costs (while loop)
```

```
Function CalcInputs
    #sum food array
    #sum gas array
    #sum total trip cost (total food cost + total gas cost)
    #calculate cost per person (total trip / total people)
```

```
Function DisplayCalcs
    #Displays calculations based on user inputs
```

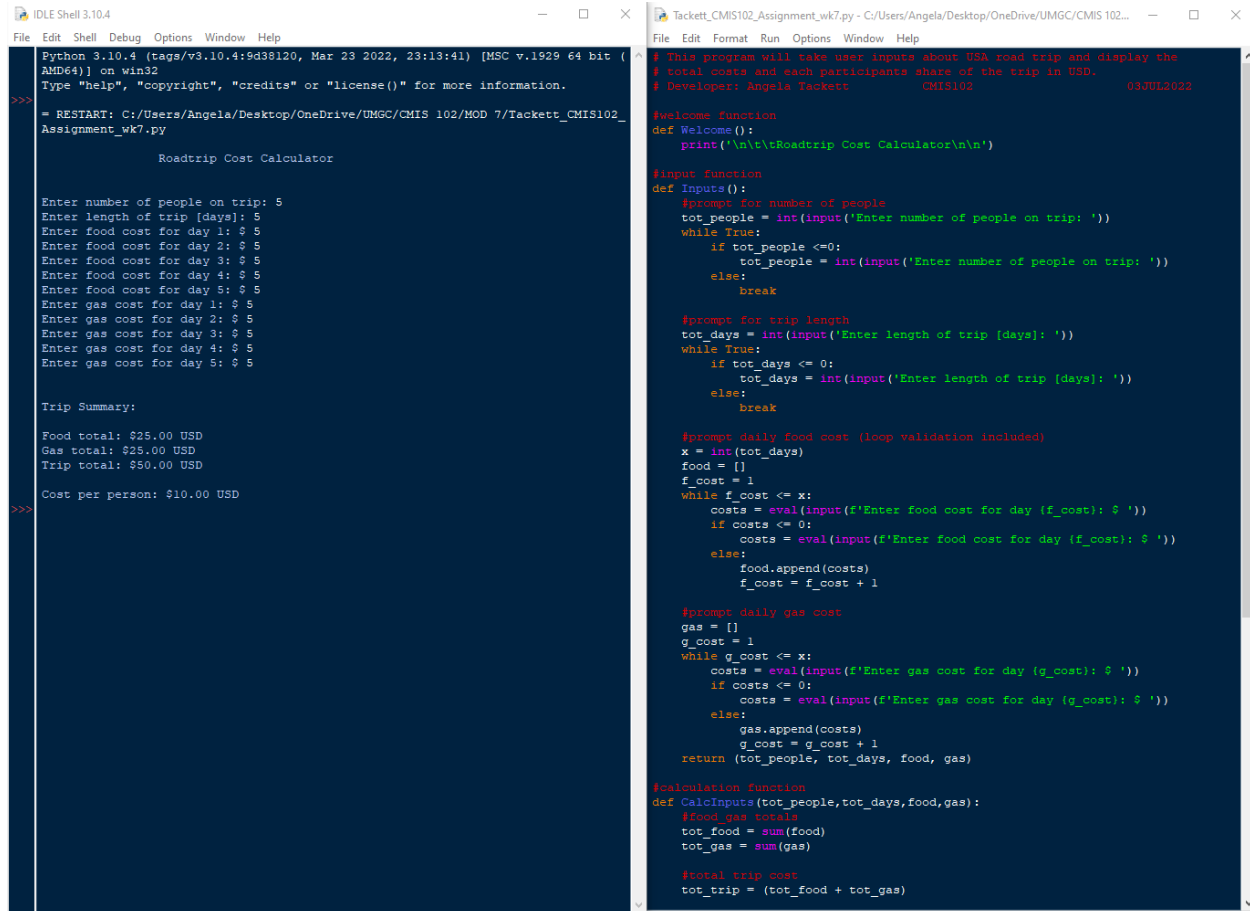
MAIN

```
#Welcome
#Inputs for trip information
#Calculate inputs
#Display totals (food,gas,trip) and cost per person
```

```
main()
```

TEST

TEST #	INPUT	EXP OUT	ACT OUT	P/F
1	5 people/5 days food/day - \$5 (x5) gas/day - \$5 (x5)	F- \$25/G- \$25 Total: \$50 Person: \$10	F- \$25/G- \$25 Total: \$50 Person: \$10	P
2	1 person/3 days food/day - \$2 (x3) gas/day - \$2 (x3)	F- \$6/G- \$6 Total: \$12 Person: \$12	F- \$6/G- \$6 Total: \$12 Person: \$12	P
3	10 person/5 days food/day - \$50 (x5) gas/day - \$100 (x5)	F- \$250/G- \$500 Total: \$750 Person: \$75	F- \$250/G- \$500 Total: \$750 Person: \$75	P

TEST # 1

```
Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Angela/Desktop/OneDrive/UMGC/CMIS 102/MOD 7/Tackett_CMIS102_Assignment_wk7.py

Roadtrip Cost Calculator

Enter number of people on trip: 5
Enter length of trip [days]: 5
Enter food cost for day 1: $ 5
Enter food cost for day 2: $ 5
Enter food cost for day 3: $ 5
Enter food cost for day 4: $ 5
Enter food cost for day 5: $ 5
Enter gas cost for day 1: $ 5
Enter gas cost for day 2: $ 5
Enter gas cost for day 3: $ 5
Enter gas cost for day 4: $ 5
Enter gas cost for day 5: $ 5

Trip Summary:

Food total: $25.00 USD
Gas total: $25.00 USD
Trip total: $50.00 USD

Cost per person: $10.00 USD
>>>
```

```
# This program will take user inputs about USA road trip and display the
# total costs and each participants share of the trip in USD.
# Developer: Angela Tackett CMIS102 03JUL2022

#welcome function
def Welcome():
    print('\n\t\tRoadtrip Cost Calculator\n\n')

#input function
def Inputs():
    #prompt for number of people
    tot_people = int(input('Enter number of people on trip: '))
    while True:
        if tot_people <= 0:
            tot_people = int(input('Enter number of people on trip: '))
        else:
            break

    #prompt for trip length
    tot_days = int(input('Enter length of trip [days]: '))
    while True:
        if tot_days <= 0:
            tot_days = int(input('Enter length of trip [days]: '))
        else:
            break

    #prompt daily food cost (loop validation included)
    x = int(tot_days)
    food = []
    f_cost = 1
    while f_cost <= x:
        costs = eval(input(f'Enter food cost for day (f_cost): $ '))
        if costs <= 0:
            costs = eval(input(f'Enter food cost for day (f_cost): $ '))
        else:
            food.append(costs)
            f_cost = f_cost + 1

    #prompt daily gas cost
    gas = []
    g_cost = 1
    while g_cost <= x:
        costs = eval(input(f'Enter gas cost for day (g_cost): $ '))
        if costs <= 0:
            costs = eval(input(f'Enter gas cost for day (g_cost): $ '))
        else:
            gas.append(costs)
            g_cost = g_cost + 1

    return (tot_people, tot_days, food, gas)

#calculation function
def CalcInputs(tot_people,tot_days,food,gas):
    #food_gas totals
    tot_food = sum(food)
    tot_gas = sum(gas)

    #total trip cost
    tot_trip = (tot_food + tot_gas)
```

TEST #2

```

Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32
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>>>
= RESTART: C:/Users/Angela/Desktop/OneDrive/UMGC/CMIS 102/MOD 7/Tackett_CMIS102_Assignment_wk7.py

Roadtrip Cost Calculator

Enter number of people on trip: 1
Enter length of trip [days]: 3
Enter food cost for day 1: $ 2
Enter food cost for day 2: $ 2
Enter food cost for day 3: $ 2
Enter gas cost for day 1: $ 2
Enter gas cost for day 2: $ 2
Enter gas cost for day 3: $ 2

Trip Summary:

Food total: $6.00 USD
Gas total: $6.00 USD
Trip total: $12.00 USD

Cost per person: $12.00 USD
>>>

```

```

Tackett_CMIS102_Assignment_wk7.py - C:/Users/Angela/Desktop/OneDrive/UMGC/CMIS 102...
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# This program will take user inputs about USA road trip and display the
# total costs and each participants share of the trip in USD.
# Developer: Angela Tackett          CMIS102          03JUL2022

#welcome function
def Welcome():
    print('\n\t\tRoadtrip Cost Calculator\n\n')

#input function
def Inputs():
    #prompt for number of people
    tot_people = int(input('Enter number of people on trip: '))
    while True:
        if tot_people <= 0:
            tot_people = int(input('Enter number of people on trip: '))
        else:
            break

    #prompts for trip length
    tot_days = int(input('Enter length of trip [days]: '))
    while True:
        if tot_days <= 0:
            tot_days = int(input('Enter length of trip [days]: '))
        else:
            break

    #prompt daily food cost (loop validation included)
    x = int(tot_days)
    food = []
    f_cost = 1
    while f_cost <= x:
        costs = eval(input(f'Enter food cost for day {f_cost}: $ '))
        if costs <= 0:
            costs = eval(input(f'Enter food cost for day {f_cost}: $ '))
        else:
            food.append(costs)
            f_cost = f_cost + 1

    #prompt daily gas cost
    gas = []
    g_cost = 1
    while g_cost <= x:
        costs = eval(input(f'Enter gas cost for day {g_cost}: $ '))
        if costs <= 0:
            costs = eval(input(f'Enter gas cost for day {g_cost}: $ '))
        else:
            gas.append(costs)
            g_cost = g_cost + 1
    return (tot_people, tot_days, food, gas)

#calculation function
def CalcInputs(tot_people,tot_days,food,gas):
    #food gas totals
    tot_food = sum(food)
    tot_gas = sum(gas)

    #total trip cost
    tot_trip = (tot_food + tot_gas)

```

TEST #3

```

Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32
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>>>
= RESTART: C:/Users/Angela/Desktop/OneDrive/UMGC/CMIS 102/MOD 7/Tackett_CMIS102_Assignment_wk7.py

Roadtrip Cost Calculator

Enter number of people on trip: 10
Enter length of trip [days]: 5
Enter food cost for day 1: $ 50
Enter food cost for day 2: $ 50
Enter food cost for day 3: $ 50
Enter food cost for day 4: $ 50
Enter food cost for day 5: $ 50
Enter gas cost for day 1: $ 100
Enter gas cost for day 2: $ 100
Enter gas cost for day 3: $ 100
Enter gas cost for day 4: $ 100
Enter gas cost for day 5: $ 100

Trip Summary:

Food total: $250.00 USD
Gas total: $500.00 USD
Trip total: $750.00 USD

Cost per person: $75.00 USD
>>>

```

```

tackett_CMIS102_Assignment_wk7.py - C:/Users/Angela/Desktop/OneDrive/UMGC/CMIS 102...
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# This program will take user inputs about USA road trip and display the
# total costs and each participants share of the trip in USD.
# Developer: Angela Tackett CMIS102 03JUL2022

#welcome function
def Welcome():
    print('\n\tRoadtrip Cost Calculator\n\n')

#input function
def Inputs():
    #prompt for number of people
    tot_people = int(input('Enter number of people on trip: '))
    while True:
        if tot_people <= 0:
            tot_people = int(input('Enter number of people on trip: '))
        else:
            break

    #prompt for trip length
    tot_days = int(input('Enter length of trip [days]: '))
    while True:
        if tot_days <= 0:
            tot_days = int(input('Enter length of trip [days]: '))
        else:
            break

    #prompt daily food cost (loop validation included)
    x = int(tot_days)
    food = []
    f_cost = 1
    while f_cost <= x:
        costs = eval(input(f'Enter food cost for day {f_cost}: $ '))
        if costs <= 0:
            costs = eval(input(f'Enter food cost for day {f_cost}: $ '))
        else:
            food.append(costs)
            f_cost = f_cost + 1

    #prompt daily gas cost
    gas = []
    g_cost = 1
    while g_cost <= x:
        costs = eval(input(f'Enter gas cost for day {g_cost}: $ '))
        if costs <= 0:
            costs = eval(input(f'Enter gas cost for day {g_cost}: $ '))
        else:
            gas.append(costs)
            g_cost = g_cost + 1
    return (tot_people, tot_days, food, gas)

#calculation function
def CalcInputs(tot_people,tot_days,food,gas):
    #food_gas totals
    tot_food = sum(food)
    tot_gas = sum(gas)

    #total trip cost
    tot_trip = (tot_food + tot_gas)

```