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InfoTc 1040 Introduction to Problem Solving and Programming Debugging Trip Planner

Trip Planner is a program designed to help you manage the details of your next trip. It provides you with a list of potential travel destinations, asks how long you'll be staying, and saves that information as an itinerary.

Trip Planner and its modules are attached to this assignment in *TripPlanner.zip*

Unfortunately, Trip Planner is currently non-functional. It contains several syntax and logic errors that prevent it from working properly. Your mission is to find and fix those errors.

Review the program requirements and desired output described below. Use that information and your troubleshooting skills to debug Trip Planner.

Trip Planner Components

Trip Planner consists of `planner.py` and two custom modules: `destinations.py` and `currency.py`

planner.py

`planner.py` is the starting point for this application. It asks the user about their trip, calculates the cost of the trip, and saves that information to a text file named *itinerary.txt*

destinations.py

This module provides information about three travel destinations: Rome, Berlin, and Vienna. It defines a function called *get_choice()* to help the user decide on a destination.

currency.py

This module provides two functions: one that converts dollar amounts to euros and another that converts euro amounts to dollars.

Exception Handling

- The application should not crash based on the user's input.
- `planner.py` should only accept positive (not negative or zero) lengths of stay.
- The *get_choice()* function in `destinations.py` should only accept 1, 2, or 3.

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Expected Output

Here is an example of the program functioning properly. The user's input is highlighted in orange.

```
-----  
Welcome to the Trip Planner  
-----  
  
Travel Options  
-----  
1. Rome  
2. Berlin  
3. Vienna  
  
Where would you like to go? 2  
And how many days will you be staying in Berlin? 5  
  
Your trip to Berlin has been booked!
```

After running, this program would have generated a text file named *itinerary.txt*. That file is attached to this assignment as *itinerarySample.txt* and its contents are listed below. You can use it to check your output.

```
Trip Itinerary  
-----  
Destination: Berlin  
Length of stay: 5  
Cost: $100.80
```

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Make sure to check Trip Planner's error handling as well. For example:

```
-----  
Welcome to the Trip Planner  
-----  
  
Travel Options  
-----  
1. Rome  
2. Berlin  
3. Vienna  
  
Where would you like to go? Vienna  
The value you entered is invalid. Only numerical values are  
valid.  
Where would you like to go? 4  
Please select a choice between 1 and 3.  
Where would you like to go? 3  
And how many days will you be staying in Vienna? -1  
Please enter a positive number of days.  
And how many days will you be staying in Vienna? 0  
Please enter a positive number of days.  
And how many days will you be staying in Vienna? ten days  
The value you entered is invalid. Only numerical values are  
valid.  
And how many days will you be staying in Vienna? 10  
  
Your trip to Vienna has been booked!
```

Submission

Place your debugged **planner.py**, **destinations.py**, and **currency.py** files in a folder named **<lastname><firstname>TripPlanner** and zip the folder. Do not include characters other than a-z and A-Z in the folder name. Submit this zip file on Blackboard.



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