

Project 1: Trip Planner

For this project you are going to write a program that asks the user for some information about an international trip they are taking. Based on that information you will need to do some conversions, using the correct data types, to tell them some information to help them plan their trip. Here is my sample output:

Part 1 – Greeting

First you'll want to greet your user and ask them their name. As you can see above the user types their response ON THE SAME LINE as the question. To do this you'll want to use a `System.out.print()` statement instead of a `System.out.println()` statement. Once you have their name use it to greet your user, and then ask them where they would like to go. Finally tell you user their destination sounds like a great trip! All the code to accomplish Part 1 should be in its own method.

HINT: Some names and destinations are more than 1 word! Plan accordingly.

Part 2 – Travel time and Budget

For this part, you'll want to ask the user about how much time and money they are budgeting for their trip. Ask the user:

1. How many days are they going to spend in their destination?
2. What is their total budget for the trip in USD?
3. What is the currency symbol for their destination? For example, the us dollar's is USD, the euro's is EU etc...
4. The conversion rate between 1 USD to however many of that destinations currency. For example, there are 0.9 euro to 1 usd, so the user would type in 0.9

Once you have all this info (stored in the correct variables), use it to tell the user the following information:

1. How much time the user will spend in their destination in days, hours, minutes
2. Show the user their budget in USD for the whole trip and how much they can spend in USD per day
3. Show the user their budget in the travel destination's currency for the total trip and per day

All the code to accomplish Part 2 should be in its own method.

HINT: keep in mind that if you divide integers you might lose some information when it rounds down!

Part 3 – Time Difference

For this part, you'll need to ask the user about the time difference between their home and where they are going. If the destination time zone is "behind" the user's home timezone the user should enter a negative number. For example, the time difference between Seattle and Nairobi is 9 hours, and the time difference between New York and Mexico City is -1 hours.

Show the time it will be in the travel destination when it is midnight at home and when it is noon at home. You can report these in 24 format, where midnight is 0:00 and noon is 12:00.

HINT: If your answers are greater than 24 try using the % or mod operator to “wrap around” to 24 hour time format.

All the code to accomplish Part 3 should be in its own method.

Part 4 – Country Area

Only three countries in the world use the “imperial system”, so most countries report their distances in kilometers. For this part, ask the user the area of their travel destination country in km². Then you’ll want to convert that to miles² and report those results back to the user.

All the code to accomplish Part 4 should be in its own method.

Part 5 – Vacation Plan

Below the things that should be included in the method:

It should add a list of countries that it plans to do in the future and submit one of them as the next route into conclusion.

Note: Use arrays and loops in your code.