

Assignment 6

Python 1 - Dictionaries

In a Canadian postal code, the first, third and fifth characters are letters while the second, fourth and sixth characters are numbers. The province can be determined from the first character of a postal code, as shown in the following table. No valid postal codes currently begin with D, F, I, O, Q, U, W or Z.

Province	First Characters
Newfoundland	A
Nova Scotia	B
Prince Edward Island	C
New Brunswick	E
Quebec	G, H and J
Ontario	K, L, M, N and P
Manitoba	R
Saskatchewan	S
Alberta	T
British Columbia	V
Nunavut	X
Northwest Territories	X
Yukon	Y

The second character in a postal code identifies whether the address is rural or urban. If that character is a 0 then the address is **rural** otherwise it is **urban**.

Create a program that reads a postal code from the user and displays the province associated with it, along with whether the address is urban or rural. For example, if the user enters **T2N 1N4** then your program should indicate that the postal code is from an urban address in Alberta. If the user enters **X0A1B2** then your program should indicate that the postal code is for a rural address in Nunavut or Northwest Territories. Use a dictionary to map from the first character of the postal code to the province name. Display a meaningful error message if the postal code begins with an invalid character.

Submission Instructions:

1. Create a folder named python_assignment_6
2. Inside that folder add your .py file and a **PDF** with screenshots of your assignment
 - a. The PDF should contain screenshots of your code and sample output
3. Submit the python_assignment_6 folder to the Assignment 5 dropbox on week 10 in moodle
4. You **do not** need to prefix your variables with your student number