Assignment #3

* Open the attached VSCode Project
* Write an abstract class called Person that:
  + Has an instance variable called name of type String.
  + Has an instance variable calle favouriteTravelLocation of type String.
  + Person will use constructor injection to set the name and favouriteTravelLocation instance variables.
  + Add a getters for your class.
  + Person should have a method called eat that accepts a String representing the type of food and prints out:
    - <name> is eating <food>
  + Add an abstract method called doWork that accepts nothing and returns nothing.
* Write three classes that inherit from Person. These classes should represent three different kinds of jobs like Nurse or Plumber – However, you should choose your own jobs.
* Make sure your constructors line up make your classes doWork. For example, the Nurse might “<name> is checking blood pressure” and the Plumber might “<name> is installing a faucet”. Again, make up what each person does at work.
* In the Start class, in the main method, create a polymorphic array that contains all of your child objects.
* Loop through your array and make each person do work. Notice that each child type will print out their unique work phrase.
* Take a look at the HasPassport interface. Notice that there is:
  + a method called talkToCustoms that accepts nothing and returns a String.
* Choose two of your Child Classes from above and make them implement the HasPassport interface. One of your classes should travel by boat: <name> is travelling to <destination> by boat. The other should travel by plane: <name> is travelling to <destination> by plane. The talkToCustoms method should return these phrases.
* Finally, write a class called Customs that has a method called processTraveller. This method should accept a variable of type **HasPassport** and should be called traveller.
* Every time this method is called and a HasPassport object is passed to it, it should print something that looks something like this:
* Notice that you cannot pass an object of type of the child class that didn’t implement the HasPassport interface. In the comments, explain why you can’t pass this object into the processTraveller interface.
* When I typed the below code into my main method, I got the out below. Make your code similar to mine and see if you get a similar output.
* Code

A screenshot of a computer program

Description automatically generated

* Output:
  + Blue text on a white background

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