**Address Book V2**

### Problem Statement

Your task here is to implement a **C#** code based on the following specifications. Note that your code should match the specifications in a precise manner. Consider **default visibility** of classes, data fields and methods unless mentioned otherwise.

### **Specifications**

class PersonAddress:

  method definition:

   Type: Implement getter setter method.

   return type: string

   visibility: public

   HouseNo: Implement getter setter method.

   return type: string

   visibility: public

   StreetName: Implement getter setter method.

   return tye: string

   visibility: public

   City: Implement getter setter method.

   return type: string

   visibility: public

class PersonalDetails:

  method definition:

   Name : Implement getter setter method.

   return type: string

   visibility: public

   Age: Implement getter setter method.

   return type: int

   visibility: public

   Company: Implement getter setter method.

   return type: string

   visibility: public

   PAN: Implement getter setter method.

   return type: string

   visibility: public

   AddressList: Implement getter setter method.

   return type: List<PersonAddress>

   visibility: public

class Program:

  method definition:

   Serialize: serialize List of PersonalDetails object to xml file (xmloutput.xml)

   return type: string

return message Successful if serialization is successful.

   DeSerialize: Deserializae xml file (xmloutput.xml) into List of PersonalDetails object

   return type: List<PersonalDetails>

### Task:

* Create classes **PersonAddress** and **PersonalDetails** according to above specifications
* Create a class **Program** and implement the below given methods:

1. **Serialize :** serialize list to xml file (xmloutput.xml)
2. **Deserialize :** deserialize xml file into list collection of PersonalDetails object.

* Use XMLElement attribute to define Order of xml tags.
* Don't add PAN property to xml file while serializing
* Use XMLAttribute for HouseNo from PersonAddress class to add as xml attribute (don't create xml tag for HouseNo)
* Serialize List of PersonalDetails object to 1 xml file.

### **IMPORTANT**

    If you want to test your program you can implement a Main() function and you can use RUN CODE to test your Main() provided you have made valid function calls with valid data required.