

CreditCard Assignment

Write a Python script file containing a class named CreditCard that models a credit card. The class constructor method (init) should take the credit card number, person's name, and the expiration date as inputs. The constructor method should set the credit limit to 1000 and assign a random value below 1000 as the card balance amount. CreditCard class should have a dictionary class variable for supported credit card types. See the below table for the key pair conditions.

Key	Value
1	Visa
2	Mastercard
3	Amex
4	Discover

CreditCard class should have get methods for obtaining a person's name and card type.

CreditCard class should have a method that checks with the dictionary class variable and assign card type to a given credit card number. The method should check the fifth element in the credit card number, if the fifth element number matches with the key, then the value is assigned as the card type. If the key does not exist in the dictionary, then "Not Supported Card Type" should be assigned to the card type.

CreditCard class should contain a method name processOrder that checks whether there is sufficient balance on the card for processing an order. The processOrder method should take a transaction amount as its input. If there is sufficient balance, then the transaction amount is added to the card balance amount and returns True. If there is not sufficient balance, then it returns False. If credit card type is not supported, then it returns False.

CreditCard class should have a str() function that returns information about the credit card number, person's name, and expiration date.