MPIN Task

House of Product | Data Science | Assignment

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Background

Read about MPIN that is used to access mobile banking apps. Many a times users end up setting an MPIN that is guessable because
1. It is a commonly used MPIN eg 1122
2. It is a combination of easily known demographics of the user. Eg: if the birthdate is 02 Jan-1998 then MPIN could be 0201 or 9802 or 0201 etc. Demographics such as these could be used alone or in a combination
a. DOB
b. Wedding Anniversary
c. Spouse birthday

Expected Outcome

1. **Part A:** Assume that the MPIN is 4-digits. Write a program that suggests if the MPIN is a commonly used one. Ignore the demographics for this part

2. **Part B:** Enhance the above to take user's demographics as input and provides an output
   a. Strength: WEAK or STRONG

3. **Part C:** Enhance the above to provide the following outputs
   a. Strength: WEAK or STRONG
   b. If weak then the reason why was it considered weak: It should give from the following the reasons as an

   array. Array should be empty if Strength is STRONG and non-empty if WEAK

   - COMMONLY_USED

   - DEMOGRAPHIC_DOB_SELF

   - DEMOGRAPHIC_DOB_SPOUSE

   - DEMOGRAPHIC_ANNIVERSARY

4. **Part D:** Above with a 6-digit PIN

5. Write code that tests the above written code using a set of inputs. Write at least 20 test case scenarios.

Note - Please don't use HARDCODED VALUES in the code.

About Us

OneBanc is a neobank, building the economic infrastructure for the workforce of India. The idea of OneBanc started when a young girl asked Vibhore, a serial entrepreneur, why the money in her piggybank never grew. Adopting this philosophy of #DemandMore, OneBanc connects enterprises, banks, and HR Tech platforms to enhance value for all stakeholders. The core team has proven their vision and executive prowess in CoCubes - a complete assessment solution for students and institutes, which was acquired by Aon. They are now building the squad to enable FinTech revolution of the future.

OneBanc is building a digital, AI-enabled ecosystem that focuses on delivering a personalized banking experience to white-collar professionals in India, which is valued at $87 billion and is projected to grow at a CAGR of 12%. The 'OneBanc Ecosystem' comprises RBI-regulated banks, merchants, and HR tech platforms.

Corporates see the OneBanc platform as an avenue to- improve compliance, increase productivity, and deliver #FinancialWellness for their team members. Partners (Banks, Merchants, HRMS) see the OneBanc platform as an avenue to increase their revenue, improve margins and increase the loyalty customers have towards them.

Reach Us

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