Data Science and AI Assignment 2 (Pandas)

Deadline 21st May 11:99 PM

Basic (2 marks):

Csv file link:

https://drive.google.com/file/d/1L3I3Y0pty9xL4DetNVwVBQVqHxwjwOyi/view?usp=sharing

Question 1:

Read banking.csv file.

print the last 3 rows of every column

Question 2:

```
import pandas as pd
data = {'name':['a','b','c','d','e'],
        'age': [20,17,32,45,15]}
df = pd.DataFrame(data)
```

find the average, max, and min value of age column

Intermediate (10 marks):

Question 3:

```
data = {'name':['a','b','c','d','e'],
            'age': [71,17,32,45,15],
```

}

df = pd.DataFrame(data)

create a new column with any name. It contains "yes" if age > 18 else "no"

Question 4:

edit new column's value with 1 and 0. 1 if yes else 1

Question 5:

data = pd.DataFrame({'color': ['red', 'blue', 'green', 'blue', 'red']})

make this data frame like this.

	color_blue	color_green	color_red
0	0	0	1
1	1	0	0
2	0	1	0
3	1	0	0
4	0	0	1

Question 6:

Read baknikg.csv and store in a variable.

Find the number of people who are married and getting their loans.

Question 7:

```
Data = {'name':['A','B','C','D','E','F','G','H'],
    'selary': ['10020',None,'15500',None,None,'18200','25300','12500']}

df = pd.DataFrame(Data)
```

replace all none value in salary column with the average salary.

Advanced (8 marks):

Question 8:

Form bankink.csv file,

Find the minimum age when people are getting married and the minimum age when people are getting loans. Write the code and minimum ages.

Question 9:

Find the number of people who are single or divorced and getting loans. Find the divorce rate from this data original data set