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## SetB (Even Roll No)

import nimpy as no import pardas as pd from geogle.colab import files

## Q1.

Answer

files.upload df=pd.read\_csv('Book1,CSV') print (df)

col=df.columnys
print (col)

# Display the court of total numbes elements of the datafram print ("Total number of elements in the given dataframe = ", of. size)

# Display top5 and bottom 5 rows of columns JOB to SAL

print (df [['JOB', 'H IREDATE', 'MCR', 'SAL']]. head (5))

print (df [['JOB', 'HIREDATE', 'MCR', 'SAL']], tail (5))

# Write the python code statement to print the value "23-May-87" from dataframe print (of [['HIREDATE']], iloc[10])



# Write the python code statement to point the values 1st, 3xd, 5th, 7th and 9th 8'ou for the column "Hire Date"

print Coff [['HIREDATE']]. iloc [0:10:2])

# Display the average value of the column SAL.

print (of [['SAL']]. mean())

Q2.

# Creating a series from array

array = np. array ([a', 'b', 'c', 'd', 'e'])

series = pd. Series (array)

print (series)

# Creating a series from array with index
corray = np. array (['a', 'b', 'c', 'd', 'e'])
series = pd. Series (array, index = [10, 11, 12, 13, 14])
print (series)

# Creating a review from Lists

list = ['A', 'B', 'c', 'D', 'E']

Aexies = pol. Series (list)

print (series)

# Creating a series from Dictionary

dictionary = & 'Rohan': lo 'Kumar': 20 'Saini': 30 }

series = pd. Series (dictionary)

print (series)



# Creating a series from Scalar value series = pd. Series (10, index = [0, 1, 2, 3, 4, 5]) point (series)

Q3. Answer

files.upload()

DATA = pd. seed \_ cov ('TITANIC.cov')

point (DATA)

# Retrieve all the xows from data frame when the value of age of the provelled is lies between 40 and 50
DATA [(DATA, Age>40) & (DATA. Age>50)]

# Retailer the names and gendax of all the peasons who was assived after the ship fell into the sea DATA ["Sanived"] == 1].

# Select and display last lossous from the dataframe when Fare is more than loo and less than 200.

DATA [CDATA. Faxe > 100) & CDATA. Force < 200) ]. tail (10)

# Create the rewardapane (rof) from original dataframe (of) containing all sows and the following columns [rame, ticket, faxe]. Sort and display all values of column Name in descending order.

NEW DATA = DATA [["Name", "Ticket", "Faxe"]]

print (NEW DATA)

print (NEW DATA. sort\_values (by = ("Name"], ascending = False))