DATA SCIENCE INTERNSHIP

WEEK 1 ASSIGNMENT

1. Write a python code to create the following table of data using dataframe and count the number of rows and colums.

10	40	70	100
20	50	80	110
30	60	90	120

2. Write a python program to read the given data.csv file(file is attached in mail) and perform the following
   a. Print the dataset.
   b. Print only the first 5 rows in the data.
   c. Remove the NULL values in the data.
   d. Analyze the data and find out count, Mean, Std, Min, Max, 25th percentile, 50th percentile, 75th percentile.

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WEEK 2 ASSIGNMENT

Perform the following operations using the given two arrays.

A1=[11,33,22,44,66,55]

A2=[10,30,20,40,60,50]

1. Extract the elements of array A1 from the index 2 to 5
2. Reshape the array A1 into (3,2) size.
3. Join the two arrays A1 and A2.
4. Split the array A1 into 3 arrays.
5. Search for a number 44 in the array A1
6. Print all the even numbers of array A1 using search option.
7. Sort the numbers of array A2.
8. Filter the odd numbers in the array A1 using filter option.

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WEEK 3 ASSIGNMENT

Read the given CSV file (insurance.csv) and write a code to perform the following operations on the data

1. **Remove the rows which is having NULL Values.**
2. **Fill the Empty cells in the "charges" column with**
   a) **Mean**
   b) **Median**
   c) **Mode**
3. **Replace the values which is more than 60 in the "age" column with the value of 50.**
4. **Find out the duplicates in the dataset and remove.**
5. **Find out the correlation between the data.**
6. **Draw a scatter plot between "age" and "bmi"**
7. **Draw a histogram plot on "age" column**
8. **Create the following series using pandas**

1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday
7	Sunday