11:49 5G 76

Welcome To Colab

A

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RAM Disk

[ ]

```
pandas as pd
{
me":["Kareem","Saif","Faizan","A
rks":[90,80,60,45,70]

.DataFrame(data)
f)
```

```
        Name  Marks
0    Kareem     90
1      Saif     80
2    Faizan     60
3      Anas     45
4  Abdullah     70
```

[42]
✓ 0s

```
data = {
    "Name":["Kareem","Saif","Fai
    "Marks":[90,80,60,45,70]
}
df = pd.DataFrame(data)
df = df.loc[1]
print(df)
```

```
Name     Saif
Marks      80
Name: 1, dtype: object
```

[43]
✓ 0s

```
data = {
```

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using Keras 3

- Image Classification with KerasHub

[35]
Os

```
aizan","Anas","Abdullah"],
```

```
      Name  Marks
0    Kareem     90
1      Saif     80
2    Faizan     60
3      Anas     45
4  Abdullah     70
```

[40]
Os

```
data = {
    "Name":["Kareem","Saif","Fai
    "Marks":[90,80,60,45,70]
}
df = pd.DataFrame(data)
df = df.loc[0]
print(df)
```

```
Name     Kareem
Marks        90
Name: 0, dtype: object
```

```
data = {
    "Names":["Kareem","Saif","Fa
    "Marks":[90,80,60,45,70]
}
df = pd.DataFrame(data)
df["Result"]=df["Mark
print(df)
```

```
     Names  Marks  Result
0    Kareem     90    True
1      Saif     80    True
2    Faizan     60    True
3      Anas     45    True
4  Abdullah     70    True
```

```
data = {
    "Names":["Kareem","Saif","Fa
    "Marks":[90,80,60,45,70]
}
df = pd.DataFrame(data)
df.info
print(df)
```

```
     Names  Marks
0    Kareem     90
1      Saif     80
2    Faizan     60
3      Anas     45
4  Abdullah     70
```

[43]
0s

```
print(df.loc[0])
print(df.iloc[1])
print(df[df["Marks"]>
```

```
     Names  Marks
0    Kareem     90
1      Saif     80
2    Faizan     60
3      Anas     45
4  Abdullah     70
0    90
1    80
2    60
3    45
4    70
Name: Marks, dtype: int64
0      Kareem
1        Saif
2      Faizan
3        Anas
4    Abdullah
Name: Names, dtype: object
Names    Kareem
Marks        90
Name: 0, dtype: object
Names    Saif
Marks      80
Name: 1, dtype: object
    Names  Marks
0  Kareem     90
1    Saif     80
```

[ ]

11:18

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[28]
0s

```
import pandas as pd
s=pd.Series([10,20,30,40])
print(s)
```

```
0    10
1    20
2    30
3    40
dtype: int64
```

[29]
0s

```
s=pd.Series([90,80,95],index=["A
print(s)
```

```
A    90
B    80
C    95
dtype: int64
```

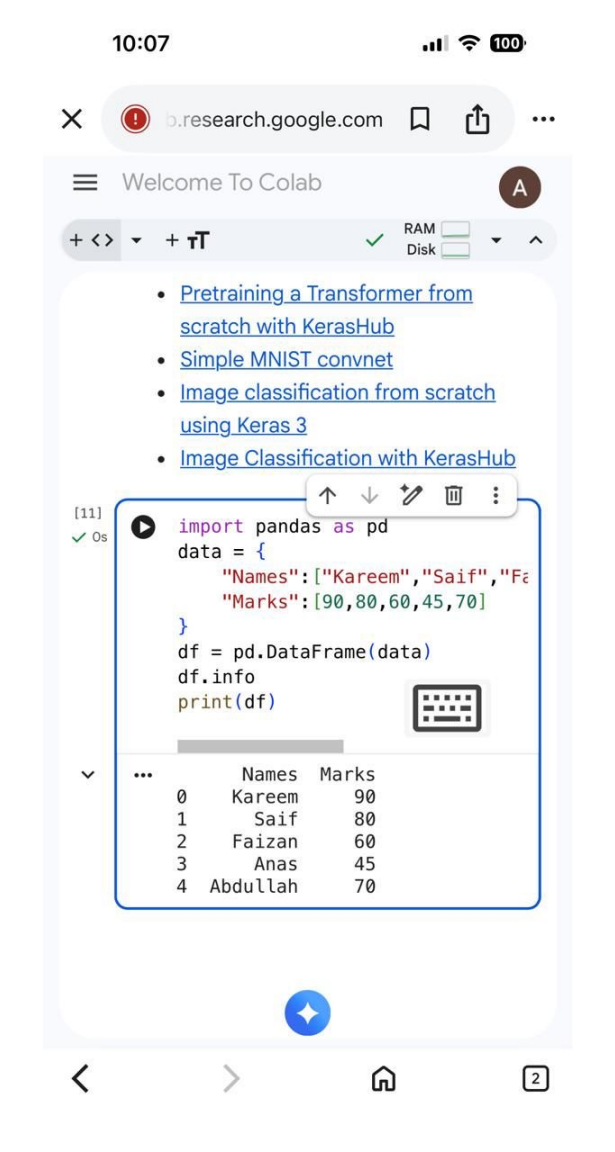
[30]
0s

```
s=pd.Series([90,80,95],index=["I
print(s)
```

```
I      90
II     80
III    95
dtype: int64
```

[ ]

Start coding or generate with AI


10:07
100
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A
RAM
Disk
Pretraining a Transformer from scratch with KerasHub
Simple MNIST convnet
Image classification from scratch using Keras 3
Image Classification with KerasHub
[11]
0s
import pandas as pd
data = {
"Names":["Kareem","Saif","Fa
"Marks":[90,80,60,45,70]
}
df = pd.DataFrame(data)
df.info
print(df)
Names Marks
0 Kareem 90
1 Saif 80
2 Faizan 60
3 Anas 45
4 Abdullah 70
2

10:03

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Welcome To Colab

RAM
Disk

- Simple MNIST convnet
- Image classification from scratch using Keras 3
- Image Classification with KerasHub

[6]
✓ 0s

```
import pandas as pd
data = {
    "Name":["Kareem","Saif","Fai
    "Marks":[90,80,60,45,70]
}
df = pd.DataFrame(data)
df["Result"]=df["Mark
print(df)
```

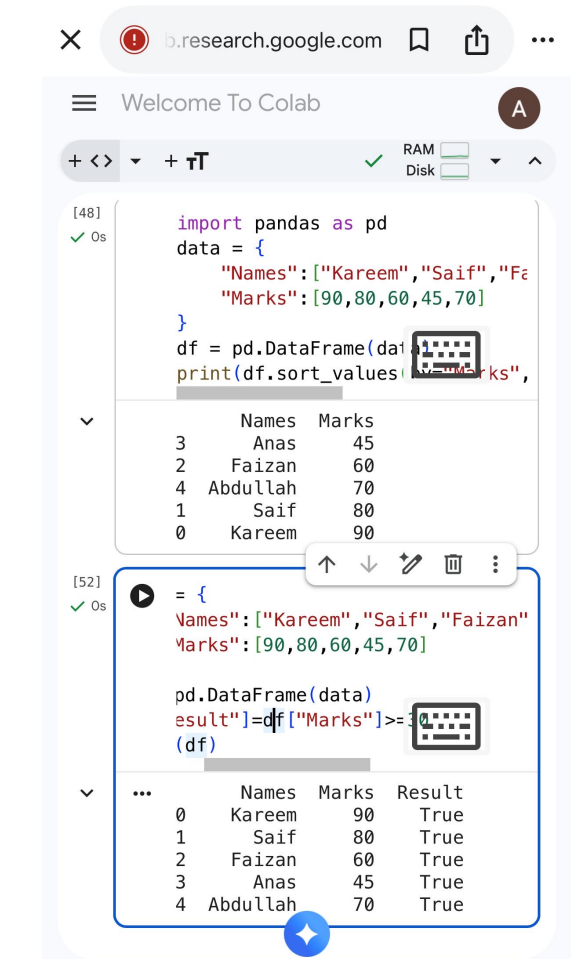
```
        Name  Marks  Result
0     Kareem     90    True
1       Saif     80    True
2     Faizan     60   False
3       Anas     45   False
4  Abdullah     70   False
```

[ ]

Start coding or gene

AI

2


11:47
91
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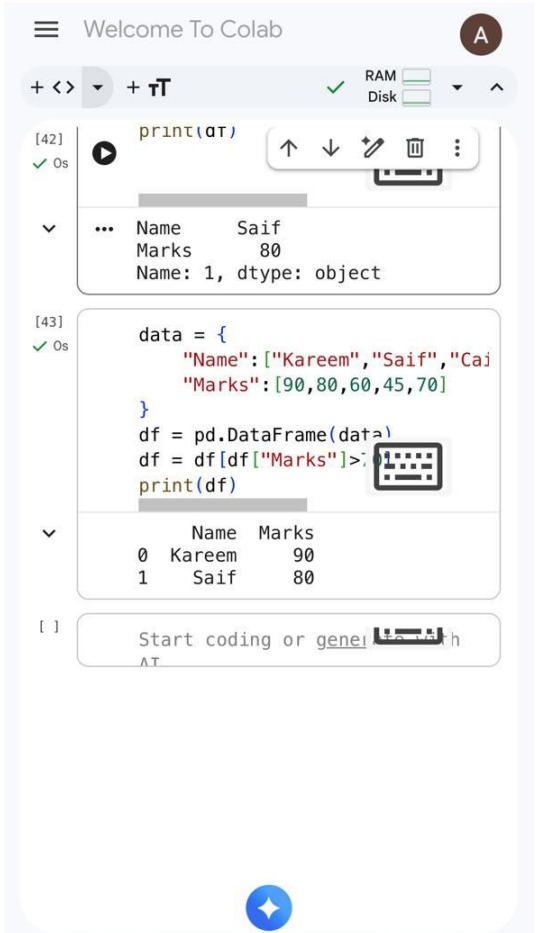
A
RAM
Disk
[48]
0s
import pandas as pd
data = {
"Names":["Kareem","Saif","Fa
"Marks":[90,80,60,45,70]
}
df = pd.DataFrame(da
print(df.sort_values(
rks",
Names Marks
3 Anas 45
2 Faizan 60
4 Abdullah 70
1 Saif 80
0 Kareem 90
[52]
0s
= {
Names":["Kareem","Saif","Faizan"
Marks":[90,80,60,45,70]
pd.DataFrame(data)
esult"]=df["Marks"]>=
(df)
Names Marks Result
0 Kareem 90 True
1 Saif 80 True
2 Faizan 60 True
3 Anas 45 True
4 Abdullah 70 True
5


11:49
5G
Welcome To Colab
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[42]
0s
print(df)
Name Saif
Marks 80
Name: 1, dtype: object
[43]
0s
data = {
"Name":["Kareem","Saif","Cai
"Marks":[90,80,60,45,70]
}
df = pd.DataFrame(data)
df = df[df["Marks"]>
print(df)
Name Marks
0 Kareem 90
1 Saif 80
[ ]
Start coding or gene
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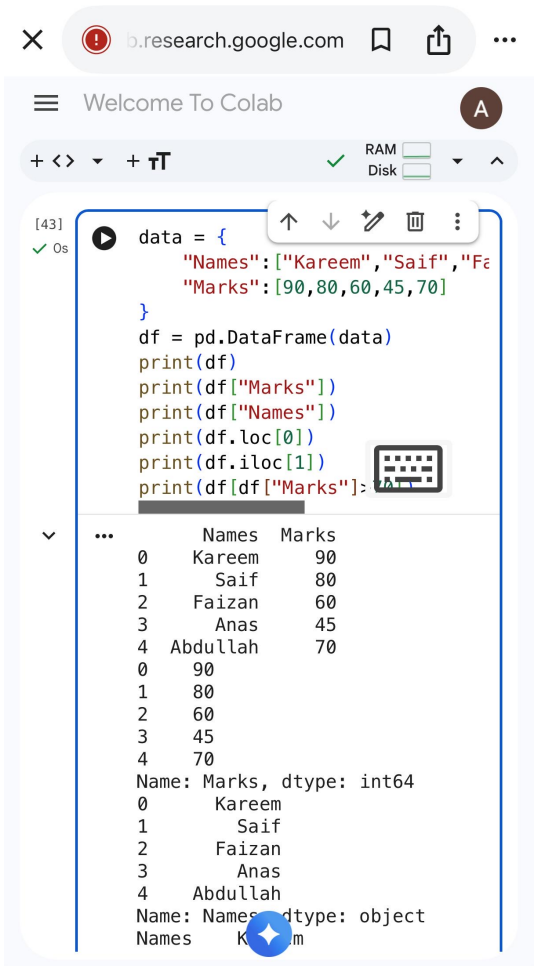
11:30
93
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A
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[43]
0s
data = {
"Names":["Kareem","Saif","Fa
"Marks":[90,80,60,45,70]
}
df = pd.DataFrame(data)
print(df)
print(df["Marks"])
print(df["Names"])
print(df.loc[0])
print(df.iloc[1])
print(df[df["Marks"]>
Names Marks
0 Kareem 90
1 Saif 80
2 Faizan 60
3 Anas 45
4 Abdullah 70
0 90
1 80
2 60
3 45
4 70
Name: Marks, dtype: int64
0 Kareem
1 Saif
2 Faizan
3 Anas
4 Abdullah
Name: Names, dtype: object
Names K m
4

```python
import pandas as pd

df = pd.read_csv("/content/students-1.csv")
print("Average:",df["Marks"].mean())
print("Topper:",df.loc[df["Marks"].idxmax()])
print("Passed Students:")
print(df[df["Marks"] > 85])
```

```
Average: 81.4
Topper: Sno                                3
Full Name       Alpuri Sri lakshmi
Admission No                19842
Branch                        BSC
Marks                          90
Name: 2, dtype: object
Passed Students:
   Sno            Full Name  Admission No Branch  Marks
2    3  Alpuri Sri lakshmi          19842    BSC     90
4    5  Amarachinta Akhila          20170   BCom     88
7    8  Anumula Chaithanya          20522    BSC     90
9   10     Arwety Sailokesh          19860    BSC     88
```

```
import pandas as pd
df = pd.read_csv( "/content/students-1.csv")
print(df)
```

```
   Sno                          Full Name  Admission No Branch  Marks
0    1                Abbisetty Harshitha         19709    BSC     78
1    2                   Akumalla Kumari          19760    BSC     85
2    3                  Alpuri Sri lakshmi         19842    BSC     90
3    4                     ALUR GURUPRASAD         20215   BCom     66
4    5                  Amarachinta Akhila         20170   BCom     88
5    6                     Amreena Muskan          19843    BSC     78
6    7  Anumalaguthi Venkata Sai Deepthi          19887    BCA     85
7    8                  Anumula Chaithanya         20522    BSC     90
8    9                        Aqsa Shereen         19888    BCA     66
9   10                   Arwety Sailokesh         19860    BSC     88
```

```python
import pandas as pd

df = pd.read_csv("/content/students-1.csv")
```

```python
import pandas as pd

df = pd.read_csv("/content/students-1.csv")
print(df.groupby("Branch")["Marks"].max())
```

```
Branch
BCA     85
BCom    88
BSC     90
Name: Marks, dtype: int64
```

```python
import pandas as pd

df = pd.read_csv("/content/students-1.csv")

df["Grade"] = df["Marks"].apply(
    lambda x: "A" if x >= 90 else "B"
)

print(df)
```

```
   Sno                        Full Name  Admission No Branch  Marks Grade
0    1              Abbisetty Harshitha          19709    BSC     78     B
1    2                  Akumalla Kumari          19760    BSC     85     B
2    3                Alpuri Sri lakshmi          19842    BSC     90     A
3    4                   ALUR GURUPRASAD          20215   BCom     66     B
4    5                 Amarachinta Akhila          20170   BCom     88     B
5    6                     Amreena Muskan          19843    BSC     78     B
6    7  Anumalaguthi Venkata Sai Deepthi          19887    BCA     85     B
7    8                 Anumula Chaithanya          20522    BSC     90     A
8    9                       Aqsa Shereen          19888    BCA     66     B
9   10                  Arwety Sailokesh          19860    BSC     88     B
```

```python
import pandas as pd

df = pd.read_csv("/content/students-1.csv")
print("Average:",df["Marks"].mean())
print("Topper:",df.loc[df["Marks"].idxmax()])
print("Passed Students:")
print(df[df["Marks"] > 85])
```

```
Average: 81.4
Topper: Sno                          3
```