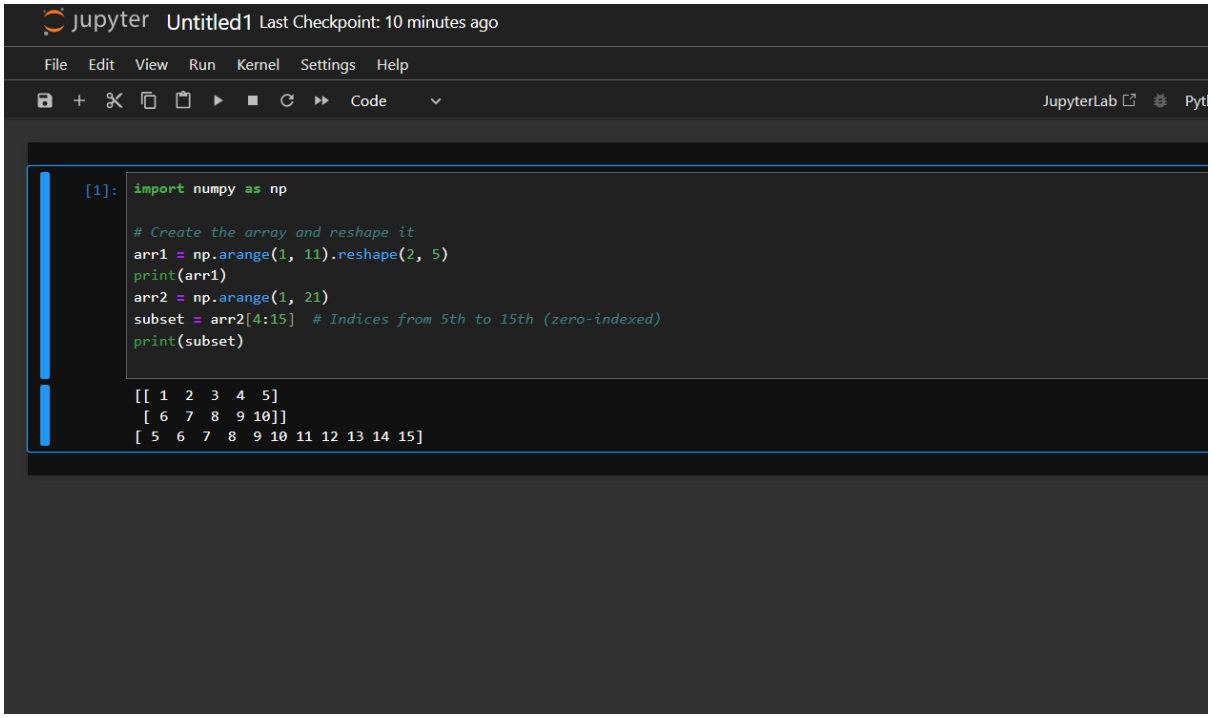
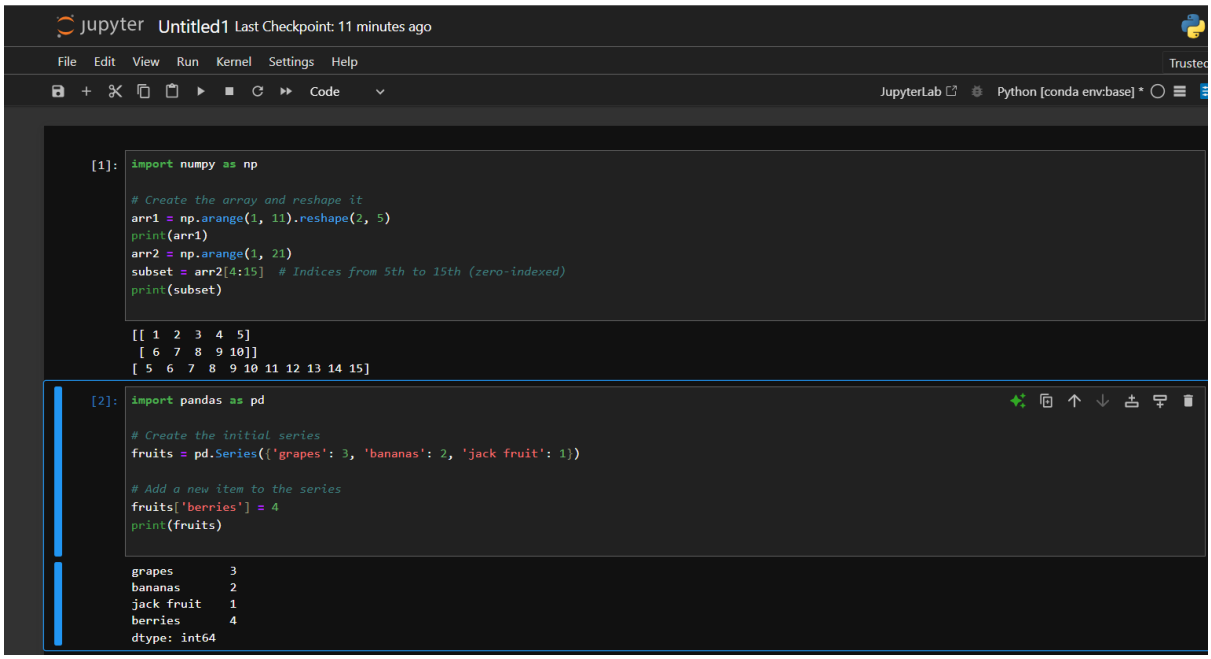
ASSIGNMENT_7 NUMPY



2.



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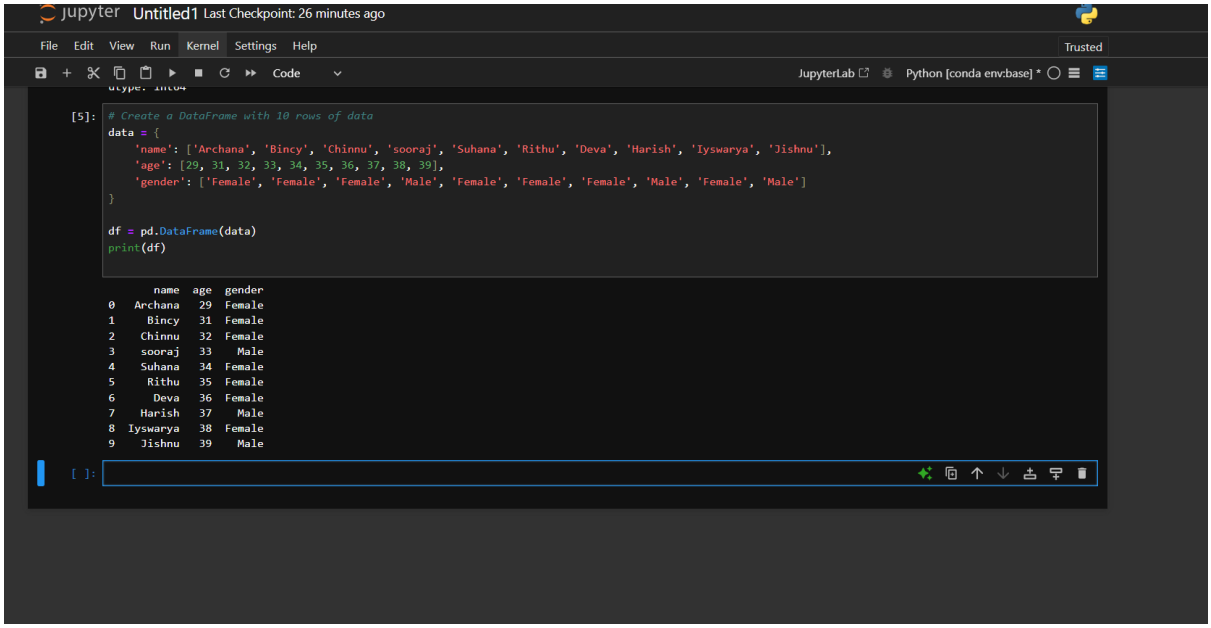
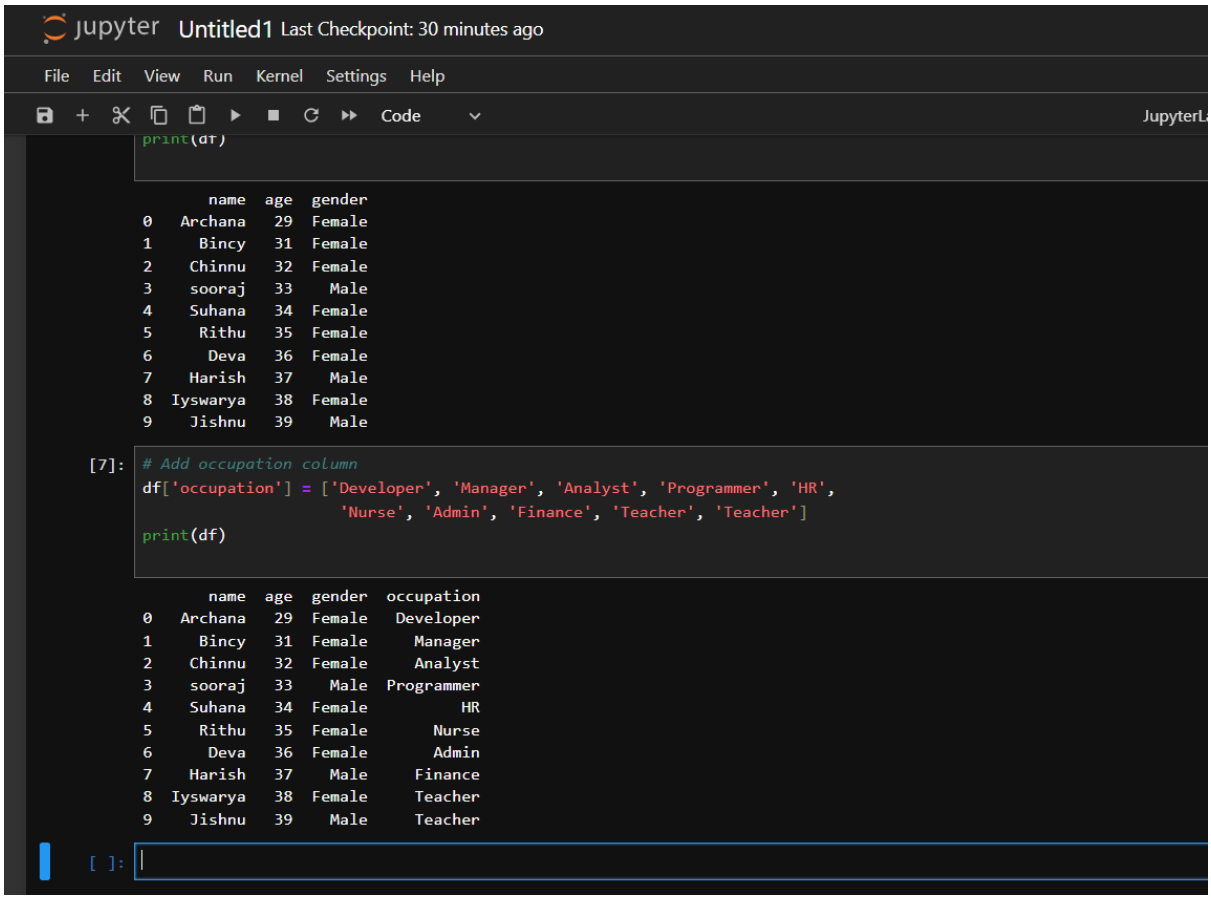

Jupyter Untitled1 Last Checkpoint: 26 minutes ago
File Edit View Run Kernel Settings Help
Trusted
Code
JupyterLab
Python [conda env:base] *
[5]:
# Create a DataFrame with 10 rows of data
data = {
'name': ['Archana', 'Bincy', 'Chinnu', 'sooraj', 'Suhana', 'Rithu', 'Deva', 'Harish', 'Iyswarya', 'Jishnu'],
'age': [29, 31, 32, 33, 34, 35, 36, 37, 38, 39],
'gender': ['Female', 'Female', 'Female', 'Male', 'Female', 'Female', 'Female', 'Male', 'Female', 'Male']
}
df = pd.DataFrame(data)
print(df)
name age gender
0 Archana 29 Female
1 Bincy 31 Female
2 Chinnu 32 Female
3 sooraj 33 Male
4 Suhana 34 Female
5 Rithu 35 Female
6 Deva 36 Female
7 Harish 37 Male
8 Iyswarya 38 Female
9 Jishnu 39 Male
[ ]:

4.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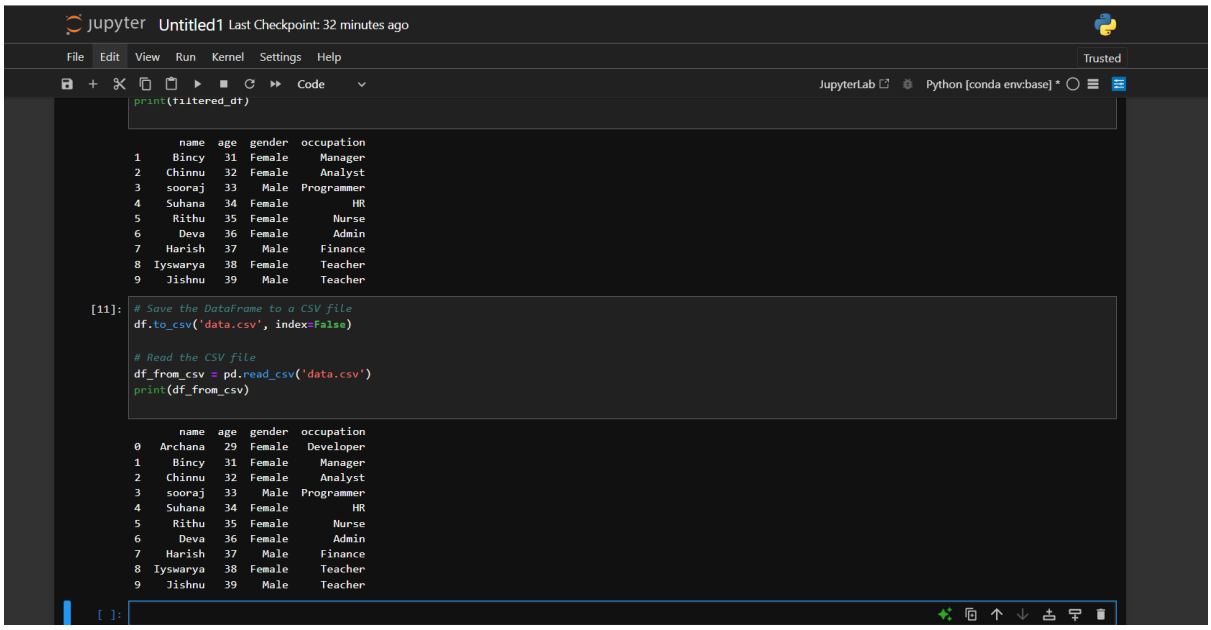
File Edit View Run Kernel Settings Help
Code
JupyterL
print(df)
name age gender
0 Archana 29 Female
1 Bincy 31 Female
2 Chinnu 32 Female
3 sooraj 33 Male
4 Suhana 34 Female
5 Rithu 35 Female
6 Deva 36 Female
7 Harish 37 Male
8 Iyswarya 38 Female
9 Jishnu 39 Male
[7]:
Add occupation column
df['occupation'] = ['Developer', 'Manager', 'Analyst', 'Programmer', 'HR',
'Nurse', 'Admin', 'Finance', 'Teacher', 'Teacher']
print(df)
name age gender occupation
0 Archana 29 Female Developer
1 Bincy 31 Female Manager
2 Chinnu 32 Female Analyst
3 sooraj 33 Male Programmer
4 Suhana 34 Female HR
5 Rithu 35 Female Nurse
6 Deva 36 Female Admin
7 Harish 37 Male Finance
8 Iyswarya 38 Female Teacher
9 Jishnu 39 Male Teacher
[ ]:

5.


jupyter Untitled1 Last Checkpoint: 32 minutes ago
File Edit View Run Kernel Settings Help
Trusted
Code
JupyterLab
Python [conda env:base] *
print(filtered_df)
name age gender occupation
1 Bincy 31 Female Manager
2 Chinnu 32 Female Analyst
3 sooraj 33 Male Programmer
4 Suhana 34 Female HR
5 Rithu 35 Female Nurse
6 Deva 36 Female Admin
7 Harish 37 Male Finance
8 Iyswarya 38 Female Teacher
9 Jishnu 39 Male Teacher
[11]:
# Save the DataFrame to a CSV file
df.to_csv('data.csv', index=False)
# Read the CSV file
df_from_csv = pd.read_csv('data.csv')
print(df_from_csv)
name age gender occupation
0 Archana 29 Female Developer
1 Bincy 31 Female Manager
2 Chinnu 32 Female Analyst
3 sooraj 33 Male Programmer
4 Suhana 34 Female HR
5 Rithu 35 Female Nurse
6 Deva 36 Female Admin
7 Harish 37 Male Finance
8 Iyswarya 38 Female Teacher
9 Jishnu 39 Male Teacher
[ ]: