```
import pandas as pd


category  = pd.read_csv('category.csv')
product = pd.read_csv('product.csv')
# new_product = pd.merge(product,category,on='cid')
# get only mobile category
# mobile = new_product[new_product['category_name'] == 'mobile']
# How to export a Pandas DataFrame to a CSV file?
# data=['ram','sita']
# data.append('gita')


# save mobile data to csv file
# mobile.to_csv('mobile.csv',index=False)
# mobile
# a = pd.series([1,2,3,4,5])
data ={
    'name': ['sophia','sita', 'anil', 'gita'],
    'age': [20, 21, 22, 23],
    'address': ['New York', 'Los Angeles', 'Chicago', 'Houston'],
}


df = pd.DataFrame(data)
# How to calculate summary statistics of a Pandas DataFrame?
# df.describe()


# How to rename index in a Pandas DataFrame?
# df.index = ['a','b','c','d']
# df
# How to add a new column to a Pandas DataFrame?
```

```
# df['phone'] = ['1234567890','1234567890','1234567890','1234567890']

# df

# How to rename columns in a Pandas DataFrame?

# df.rename(columns={'name':'studnet_name','age':'studnet_age'})



# # How to merge/join two or more Pandas DataFrames?

# df1 = pd.DataFrame({'name': ['sophia','sita', 'anil', 'gita'], 'age': [20, 21, 22, 23]})

# df2 = pd.DataFrame({'name': ['sophia','sita', 'anil', 'gita'], 'address': ['New York', 'Los Angeles',
'Chicago', 'Houston']})

# df3 = pd.merge(df1,df2,on='name')

# df3

# a=df.fillna('sophia')


# def make_upper(x):

#     return x.upper()


# a['name'].apply(make_upper)

# a

# How to apply functions to Pandas DataFrame columns?

# a['name'].apply(lambda x: x.upper())

# How to group data in a Pandas DataFrame?

# df.groupby('name').mean()

# df

# How to handle missing data in a Pandas DataFrame?

# df.fillna('sophia')

# How to drop rows or columns in a Pandas DataFrame?

# df.drop(['age'],axis=1)

# remove rows
```

```
# df.drop([2,1],axis=1)
# print(res)
# How to sort a Pandas DataFrame by one or more columns
# df.sort_values(by=['name'])
# print(res)
# df[['name','address']]


# def add(x,y):
#     return x+y


# a = lambda x,y: x+y
```