```
Code A:
import requests as r
import zipfile as z
import os
import pandas as pd
import pathlib as pl
script dir = pl.Path( file ).parent.absolute()
print(f"Script Directory: {script dir}")
os.chdir(script_dir)
response =
r.get('https://archive.ics.uci.edu/static/public/45/heart+disease.zip',
allow_redirects =True)
print(response.status_code)
with open('_heart-disease-data.zip', 'wb') as f:
   f.write(response.content)
with z.ZipFile('_heart-disease-data.zip', 'r') as zip_ref:
   data = zip_ref.read('processed.cleveland.data').decode('utf-8')
age,sex,cp,trestbps,chol,fbs,restecg,thalach,exang,oldpeak,slope,ca,thal,heartdi"
sease"
   with open('heart-disease.csv', 'w') as f:
        f.write(header + '\n')
       f.write(data)
heart_disease = pd.read_csv('heart-disease.csv')
print(heart_disease.head())
os.remove('_heart-disease-data.zip')
with open(script dir.parent / 'Practical 01' / 'iris.csv', 'r') as fa:
   with open('iris.csv', 'w') as fb:
       fb.write(fa.read())
   fa.seek(0)
   print(fa.readlines(128))
Code B:
import pandas as pd
import pathlib as pl
import os
script dir = pl.Path( file ).parent.absolute()
print(f"Script Directory: {script_dir}")
os.chdir(script dir)
adhyaaya = pd.read_excel('adhyaaya.xlsx')
print(f"Summary Statistics of adhyaaya dataset:\n{adhyaaya.describe()}")
print("Structure of adhyaaya dataset:")
adhyaaya.info()
print(f"Count of values in
rzp status:\n{adhyaaya['rzp status'].value counts()}")
```

## Output A:

```
PS C:\DevParapalli\Projects\RTMNU-SEM-6> & "C:/Program Files/Python310/python.exe" "c: /DevParapalli/Projects/RTMNU-SEM-6/PS-II/Practical 02/a.py" Script Directory: c:\DevParapalli\Projects\RTMNU-SEM-6\PS-II\Practical 02 200
```

	age	sex	ср	trestbps	chol	 oldpeak	slope	са	thal	heartdisease
0	63.0	1.0	1.0	145.0	233.0	 2.3	3.0	0.0	6.0	0
1	67.0	1.0	4.0	160.0	286.0	 1.5	2.0	3.0	3.0	2
2	67.0	1.0	4.0	120.0	229.0	 2.6	2.0	2.0	7.0	1
3	37.0	1.0	3.0	130.0	250.0	 3.5	3.0	0.0	3.0	0
4	41.0	0.0	2.0	130.0	204.0	 1.4	1.0	0.0	3.0	0

[5 rows  $\times$  14 columns]

['Id,SepalLengthCm,SepalWidthCm,PetalLengthCm,PetalWidthCm,Species\n', '1,5.1,3.5,1.4, 0.2,Iris-setosa\n', '2,4.9,3.0,1.4,0.2,Iris-setosa\n', '3,4.7,3.2,1.3,0.2,Iris-setosa\n']

## Output B:

& "C:/Program Files/Python310/python.exe" "c:/DevParapalli/Projects/RTMNU-SEM-6/PS-II/Practical 02/b.py"

Script Directory: c:\DevParapalli\Projects\RTMNU-SEM-6\PS-II\Practical 02

Summary Statistics of adhyaaya dataset: phone amount

```
count 6.870000e+02
                     687.000000
mean 8.560202e+09 2565.938865
      1.262788e+09
                     5615.405062
min
      7.558867e+08
                       0.000000
25%
      7.930107e+09
                       0.000000
50%
      8.806445e+09
                       0.000000
75%
      9.356576e+09 4900.000000
max
      9.991191e+09 49900.000000
Structure of adhyaaya dataset:
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 687 entries, 0 to 686
Data columns (total 18 columns):

# Column Non-Null Count Dtype 687 non-null 0 ob ject created\_at 687 non-null name 687 non-null 1 ob ject ob ject 687 non-null phone int64 687 non-null object email. edu\_institute 687 non-null object edu\_year 687 non-null ob ject 687 non-null ob ject edu\_spl 687 non-null team ob ject 687 non-null 9 event\_id object 687 non-null 10 amount int64 687 non-null 11 used bool 687 non-null 12 status bool 103 non-null 13 rzp\_pid ob ject 191 non-null 14 rzp\_oid ob ject 15 rzp\_sig 103 non-null ob ject 16 rzp\_status 687 non-null object 17 custom 687 non-null object

dtypes: bool(2), int64(2), object(14)

memory usage: 87.3+ KB

Count of values in rzp\_status:

rzp\_status

PAID 597 NO\_PAYMENT\_CREATED 90 Name: count, dtype: int64