data = {

"Employee\_ID": [101, 102, 103, 104, 105, 106],

"Name": ["Rajesh", "Meena", "Suresh", "Anita", "Vijay", "Neeta"],

"Department": ["HR", "IT", "Finance", "IT", "Finance", "HR"],

"Age": [29, 35, 45, 32, 50, 28],

"Salary": [70000, 85000, 95000, 64000, 120000, 72000],

"City": ["Delhi", "Mumbai", "Bangalore", "Chennai", "Delhi", "Mumbai"]

}

df = pd.DataFrame(data)

print(df)

**Exercise 1:.**

df.rename(columns={"Salary":"Annual Salary","City":"Location"},inplace=True)

print(df)

**Exercise 2:**

df.drop(columns=["Location"],inplace=True)

print(df)

**Exercise 3:**

df=df[df["Name"]!="Suresh"]

print(df)

**Exercise 4:**

df.loc[df['Name'] == 'Meena', 'Annual Salary'] = None

print(df)

mean\_salary = df['Annual Salary'].mean()

df['Annual Salary'].fillna(mean\_salary, inplace=True)

**Exercise 5:**

df["seniority"]=df["Age"].apply(lambda x :"Senior" if x>40 else "Junior")

print(df)

**Exercise 6:**

print(df.groupby("Department")["Annual Salary"].mean())