EDS PRACTICAL 5 (ASSIGNMENT) DATASET: BASIC DETAILS OF EMPLOYEES OF A COMPANY

1. Print the first 10 salaries from a given dataset using a line graph.

Code:

```
import matplotlib.pyplot as plt
import csv

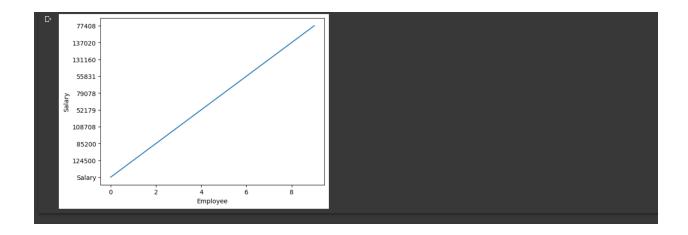
def print_first_10_salary(employee_data):
    salaries = []
    for row in employee_data[:10]:
        salary = row[6]
        salaries.append(salary)

plt.plot(salaries)
    plt.xlabel("Employee")
    plt.ylabel("Salary")
    plt.ylabel("Salary")
    plt.show()

with open("/content/employee-records.xlsx - Sheet1.csv", "r") as csvfile:
    reader = csv.reader(csvfile, delimiter=",")
    employee_data = list(reader)

print_first_10_salary(employee_data)
```

Output:



2. Print first 5 salaries from the dataset in a dotted line graph.

Code:

```
import matplotlib.pyplot as plt
import csv

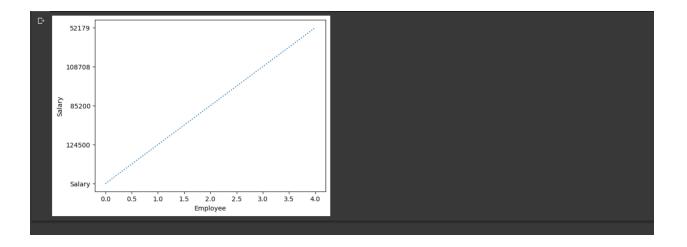
def print_first_10_salary_dotted_line(employee_data):
    salaries = []
    for row in employee_data[:5]:
        salary = row[6]
        salaries.append(salary)

plt.plot(salaries, linestyle='dotted')
    plt.xlabel("Employee")
    plt.ylabel("Salary")
    plt.show()

with open("/content/employee-records.xlsx - Sheet1.csv", "r") as csvfile:
    reader = csv.reader(csvfile, delimiter=",")
    employee_data = list(reader)

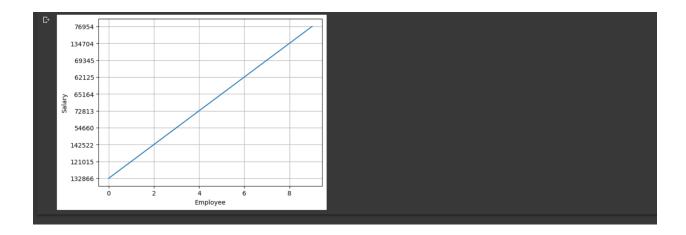
print_first_10_salary_dotted_line(employee_data)
```

Output:



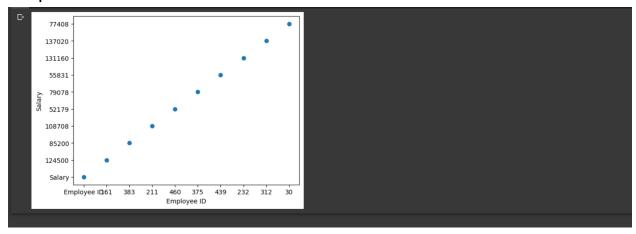
3. Print the last 10 salaries from a given dataset using a grid in line graph.

```
import matplotlib.pyplot as plt
import csv
def print last 10 salary grid(employee data):
 salaries = []
 for row in employee_data[-10:]:
   salary = row[6]
   salaries.append(salary)
 plt.plot(salaries)
 plt.grid(True)
 plt.xlabel("Employee")
 plt.ylabel("Salary")
 plt.show()
with open("/content/employee-records.xlsx - Sheet1.csv", "r") as csvfile:
 reader = csv.reader(csvfile, delimiter=",")
 employee data = list(reader)
print last 10 salary grid(employee data)
```



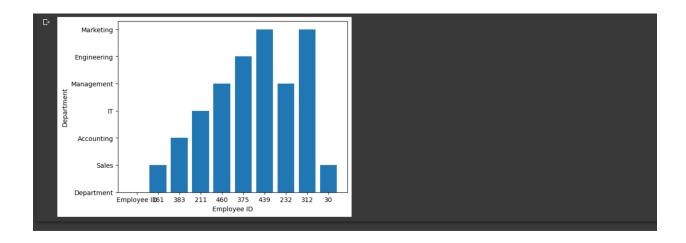
4. Print first 10 employee id from a given dataset in scatter plot

```
import matplotlib.pyplot as plt
import csv
def print first 10 employee id scatter plot(employee data):
employee ids = []
salaries = []
for row in employee data[:10]:
  employee id = row[1]
  salary = row[6]
  employee_ids.append(employee_id)
  salaries.append(salary)
plt.scatter(employee_ids, salaries)
plt.xlabel("Employee ID")
plt.ylabel("Salary")
plt.show()
with open("/content/employee-records.xlsx - Sheet1.csv", "r") as csvfile:
reader = csv.reader(csvfile, delimiter=",")
employee data = list(reader)
print first 10 employee id scatter plot(employee data)
```



5. Print first 10 employee id Vs department from a given dataset using bars.

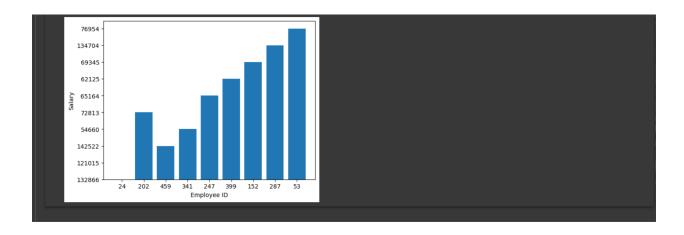
```
import matplotlib.pyplot as plt
import csv
def print_first_10_employee_id_department_bars(employee_data):
employee ids = []
departments = []
for row in employee data[:10]:
  employee id = row[1]
  department = row[5]
  employee ids.append(employee id)
  departments.append(department)
plt.bar(employee ids, departments)
plt.xlabel("Employee ID")
plt.ylabel("Department")
plt.show()
with open("/content/employee-records.xlsx - Sheet1.csv", "r") as csvfile:
reader = csv.reader(csvfile, delimiter=",")
employee data = list(reader)
print first 10 employee id department bars(employee data)
```



6. Print the last 10 employee id Vs salary from a given dataset using bars.

```
import matplotlib.pyplot as plt
import csv
def print last 10 employee id salary bars(employee data):
employee ids = []
for row in employee_data[-10:]:
  employee id = row[1]
  salary = row[6]
  employee ids.append(employee id)
  salaries.append(salary)
plt.bar(employee ids, salaries)
plt.xlabel("Employee ID")
plt.ylabel("Salary")
plt.show()
with open("/content/employee-records.xlsx - Sheet1.csv", "r") as csvfile:
reader = csv.reader(csvfile, delimiter=",")
employee data = list(reader)
```

```
print_last_10_employee_id_salary_bars(employee_data)
```



7. Print the last 10 employee id from a given dataset using histogram.

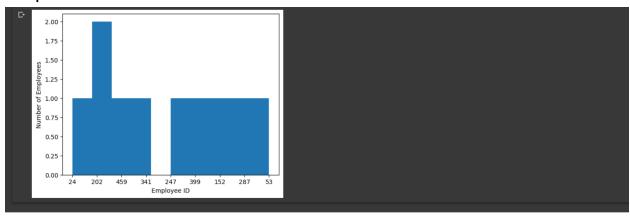
```
import matplotlib.pyplot as plt
import csv

def print_last_10_employee_id_histogram(employee_data):
    employee_ids = []
    for row in employee_data[-10:]:
        employee_id = row[1]
        employee_ids.append(employee_id)

plt.hist(employee_ids)
    plt.xlabel("Employee ID")
    plt.ylabel("Number of Employees")
    plt.show()

with open("/content/employee-records.xlsx - Sheetl.csv", "r") as csvfile:
    reader = csv.reader(csvfile, delimiter=",")
    employee_data = list(reader)

print_last_10_employee_id_histogram(employee_data)
```



8. To print the first 8 Employee id using bars.

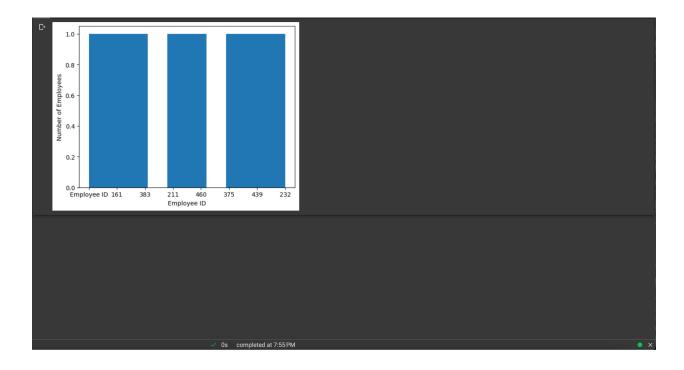
```
import matplotlib.pyplot as plt
import csv

def print_last_10_employee_id_histogram(employee_data):
    employee_ids = []
    for row in employee_data[:8]:
        employee_id = row[1]
        employee_ids.append(employee_id)

plt.hist(employee_ids)
    plt.xlabel("Employee ID")
    plt.ylabel("Number of Employees")
    plt.show()

with open("/content/employee-records.xlsx - Sheetl.csv", "r") as csvfile:
    reader = csv.reader(csvfile, delimiter=",")
    employee_data = list(reader)

print_last_10_employee_id_histogram(employee_data)
```



9. Print the salary of the first 4 employees using a pie chart.

```
import matplotlib.pyplot as plt
import csv

def print_first_10_salary_pie_chart(employee_data):
    salaries = []
    for row in employee_data[:4]:
        salary = row[5]
        salaries.append(salary)

plt.pie(salaries)
    plt.show()

with open("/content/employee-records.xlsx - Sheetl.csv", "r") as csvfile:
    reader = csv.reader(csvfile, delimiter=",")
    employee_data = list(reader)

print_first_10_salary_pie_chart(employee_data)
```



10. Print the last 5 employee id and department from a given dataset using subplots.

```
import matplotlib.pyplot as plt
import csv
def print_last_5_employee_id_department_subplot(employee_data):
employee ids = []
departments = []
for row in employee data[-5:]:
  employee id = row[1]
  department = row[5]
  employee ids.append(employee id)
  departments.append(department)
fig, axes = plt.subplots(1, 2, figsize=(10, 5))
axes[0].bar(employee ids, departments)
axes[0].set xlabel("Employee ID")
axes[0].set ylabel("Department")
axes[1].hist(departments)
axes[1].set xlabel("Department")
axes[1].set_ylabel("Number of Employees")
plt.show()
```

```
with open("/content/employee-records.xlsx - Sheet1.csv", "r") as csvfile:
  reader = csv.reader(csvfile, delimiter=",")
  employee_data = list(reader)

print_last_5_employee_id_department_subplot(employee_data)
```

