

**ANL252**

**Python for Data Analytics**

# **Group-Based Assignment**

**January 2023 Presentation**

**Submitted by:**

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| --- | --- |
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**Tutorial Group: ­­­­­­­­­­­­ T 05**

**Instructor’s Name: Dr. Munish Kumar**

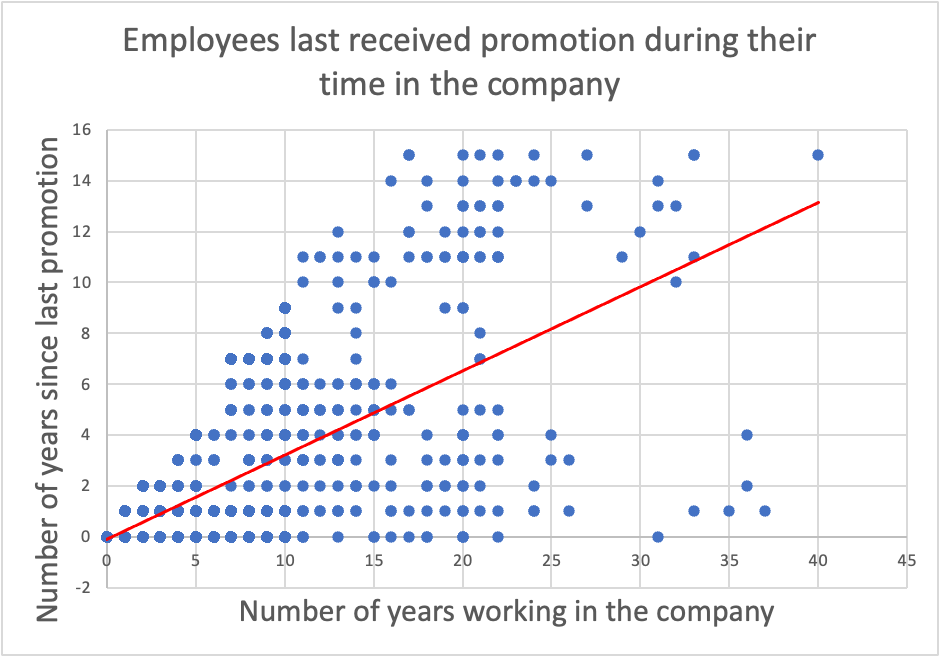
**Submission Date: 18/02/2023**

**Declaration Page**

We, members of **group 3**, do hereby declare that we each contributed to this assignment and that we collectively agree to a shared grade.

|  |  |  |
| --- | --- | --- |
| Name | Contribution | Signature |
| Ang Cheer Neng | I did question 1 (a) |  |
| Muhammad Firdaus | I did question 1 (b) | *Firdaus* |
| Tan Jie Yi | I did question 1 (c) | ***Jieyi*** |
| Shaiful Bin Jafar | I did question 1 (c) | Shaiful |

**Q1 (a)**



|  |  |
| --- | --- |
| **Number of years since last promotion** | **Number of years working in company** |
| 0 | 488 |
| 1 | 301 |
| 2 | 135 |
| 3 | 46 |
| 4 | 54 |
| 5 | 37 |
| 6 | 28 |
| 7 | 64 |
| 8 | 16 |
| 9 | 15 |
| 10 | 6 |
| 11 | 22 |
| 12 | 9 |
| 13 | 10 |
| 14 | 9 |
| 15 | 10 |
| **Grand Total** | **1250** |

According to the chart, this shows that there is strong positive correlation between the number of years working for the company and the number of years since last promotion of an employee. This would mean that there is a relationship between how long one has worked in the company and when they are being promoted. This is an interesting observation as it shows that someone would be promoted due to their longer working duration in the company.

|  |  |
| --- | --- |
| **Business Units** | **Sum of Monthly Pay** |
| Business Development | 2607173 |
| HR | 342740 |
| Product Development | 5235685 |
| **Grand Total** | **8185598** |

This graph shows the sum of monthly pay for each business unit. Based on my observation, product development has the highest sum of monthly pay. As monthly pay is a expense to the company, this means that the department for product development has the highest expense and HR is the least expense for the company. This is interesting as it shows which business unit is more expensive to have in the company.

|  |  |  |
| --- | --- | --- |
| **Field of Study** | **Number of people that studied each field** | **percentage of field of study in company (%)** |
| Business Tech | 399 | 32 |
| Engineering | 114 | 9 |
| HR | 23 | 2 |
| Marketing | 130 | 10 |
| Other | 72 | 6 |
| Sciences | 512 | 41 |
| **Grand Total** | **1250** | **100** |

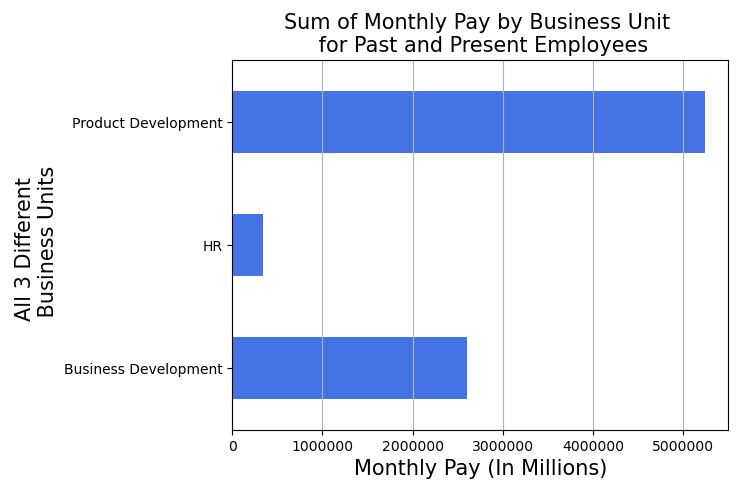
This graph shows the composition of the fields of study in the company. According to the chart, it shows that most people in the company studied in the field of sciences and the field that was least studied is HR. This is an interesting chart as it shows what people studied and then coming together to work in one company.

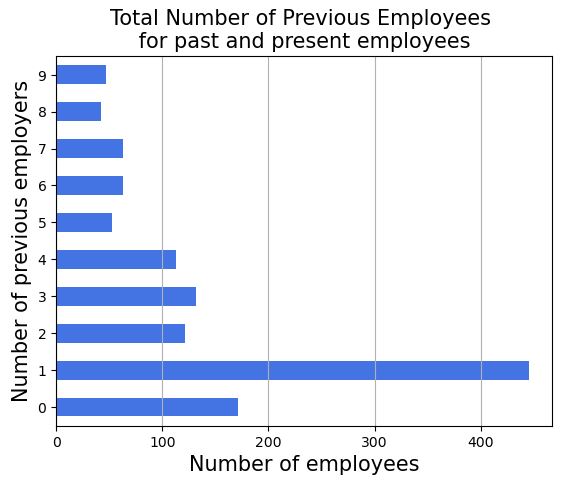
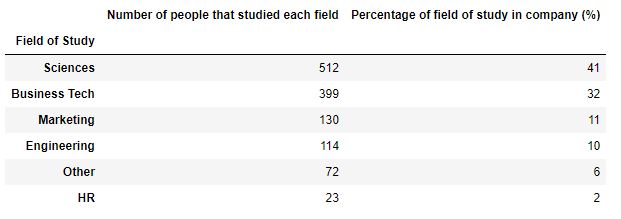
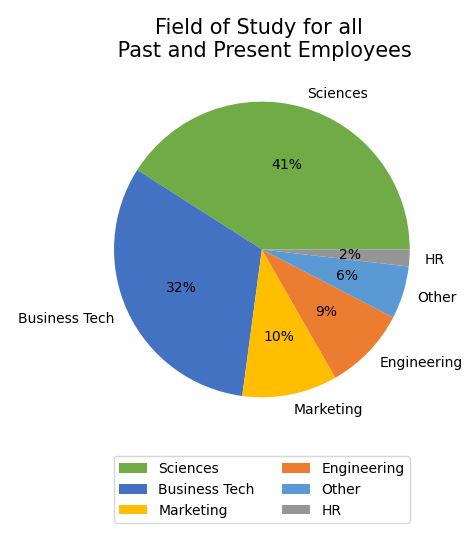
|  |  |
| --- | --- |
| **Number of previous employers** | **Number of employees** |
| 0 | 171 |
| 1 | 445 |
| 2 | 121 |
| 3 | 132 |
| 4 | 113 |
| 5 | 53 |
| 6 | 63 |
| 7 | 63 |
| 8 | 42 |
| 9 | 47 |

This graph shows the number of employees and how many previous employers they had. This graph shows that most people had 1 previous employer and least number of previous employers is 9. This is an interesting chart as it shows how many people worked elsewhere before and how many people are new to working in a company.**Q1 (b)**

**Output Images:**

![Chart, scatter chart

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEZpcmRhdXMAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzU2AACSkgACAAAAAzU2AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Q1 (c)**

**Output:**

Table

Description automatically generated with medium confidence

Text, letter

Description automatically generated

Text

Description automatically generated with low confidence

Graphical user interface, text, application, email

Description automatically generated

**Appendix**

**1 (b) Codes**

import numpy as np

import pandas as pd

import seaborn as sb

import matplotlib.pyplot as plt

# Get specific colour for bar charts and scatter plots

colour = '#4474e4'

# Read csv file and store into a dataframe

df = pd.read\_csv('GBA.csv')

# Chart 1 Dataframe with columns only from LastPromoted & WithCompany

df\_chart1 = df[['LastPromoted','WithCompany']]

# Create new Dataframe for Chart 1 Table

df\_chart1\_table = df\_chart1.pivot\_table(index='LastPromoted', values='WithCompany', aggfunc='count')

# # Reset index

df\_chart1\_table = df\_chart1\_table.reset\_index()

# Rename columns

df\_chart1\_table.columns = ['Number of years since last promotion', 'Number of years working in the company']

# Display Chart 1 Table

df\_chart1\_table

# Get a list of data from Last Promoted for x axis

trend\_x = list(df\_chart1['WithCompany'])

# Get a list of data from With Company for y axis

trend\_y = list(df\_chart1['LastPromoted'])

# Calculate the Trendline

z = np.polyfit(trend\_x, trend\_y, 1)

p = np.poly1d(z)

# Use seaborn library to visualise random data distribution with scatter plot graph

sb.scatterplot(df\_chart1['WithCompany'], df\_chart1['LastPromoted'], color=colour)

# Define title label

plt.title("Employees last received promotion \n during their time in the company", fontsize=15)

# Define x-axis label

plt.ylabel("Number of years since \n last promotion", fontsize=15)

# Define y-axis label

plt.xlabel("Number of years \n working in the company", fontsize=15)

# Display gridlines

plt.grid()

#Display trendline

plt.plot(trend\_x, p(trend\_x), color='Red')

# Create chart 2 Dataframe with columns only from BusinessUnit & MonthlyPay

df\_chart2 = df[['BusinessUnit','MonthlyPay']]

# Create pivot table to display total sum of monthly salary for each business units

df\_chart2 = pd.pivot\_table(df\_chart2, values='MonthlyPay', index='BusinessUnit', aggfunc=np.sum)

# Rename column and display table

df\_chart2.rename(columns= {'MonthlyPay':'Sum of Monthly Pay'})

# Plot Horizontal Bar plot and remove legend

df\_chart2.plot(kind='barh', legend=None, color=colour)

# Define title label

plt.title('Sum of Monthly Pay by Business Unit \n for Past and Present Employees', fontsize=15)

# Remove Scientific notation for tota salary

plt.ticklabel\_format(style='plain', axis='x')

# Define x-axis label

plt.xlabel("Monthly Pay (In Millions)", fontsize=15)

# Define y-axis label

plt.ylabel("All 3 Different \n Business Units", fontsize=15)

plt.grid(axis='x')

# Chart 3 Dataframe with columns only from FieldOfStudy

df\_chart3 = df[['FieldOfStudy']]

# Get the total counts for each Field of Study

count\_FieldofStudy = df\_chart3['FieldOfStudy'].value\_counts()

# Reset index

count\_FieldofStudy = count\_FieldofStudy.reset\_index()

# Rename the columns

count\_FieldofStudy.columns = ["Field of Study", "Number of people that studied each field"]

# Convert the Field of study to index from column

count\_FieldofStudy.set\_index('Field of Study', inplace = True)

# Get specifc colours via hex codes

colors = ['#70ab46', '#4472c3', '#ffbf00', '#eb7c30', '#5a99d3', '#959595']

# Plot pie chart with percentage counts and specific colours

count\_FieldofStudy.plot(kind='pie', autopct='%1.0f%%', colors = colors, y ='Number of people that studied each field', x = 'Field of Study')

# Define title label

plt.title('Field of Study for all \n Past and Present Employees', fontsize=15)

# Remove y-axis label

plt.ylabel("")

# Reposition legend

plt.legend(loc='upper center', bbox\_to\_anchor=(0.5, -0.04), ncol=2)

# Create a new variable for Field of Study table

fieldofStudy\_table = count\_FieldofStudy

# Create a new column for Percentages

fieldofStudy\_table['Percentage of field of study in company (%)'] = (fieldofStudy\_table['Number of people that studied each field'] /

fieldofStudy\_table['Number of people that studied each field'].sum()) \* 100

# Round up the percentage values

fieldofStudy\_table['Percentage of field of study in company (%)'] = fieldofStudy\_table['Percentage of field of study in company (%)'].apply(np.ceil)

# Covert numbers from percentage column to integer to eliminate decimal number

# Display Chart 3 table

fieldofStudy\_table.astype(int)

# Chart 4 Dataframe with columns only from PreviousEmployers

df\_chart4 = df[['PreviousEmployers']]

# Get the total counts for Total number of PreviousEmployers

count\_PrevEmployers = df\_chart4['PreviousEmployers'].value\_counts()

# Reset index

count\_PrevEmployers = count\_PrevEmployers.reset\_index()

#Rename the columns

count\_PrevEmployers.columns = ["Number of previous employers","Number of Employees"]

# Convert the Field of study to Index from column

count\_PrevEmployers.set\_index('Number of previous employers', inplace = True)

#count\_PrevEmployers.rename(columns= {'PreviousEmployers':'Number of previous employers'})

# Create a new Dataframe table and sort by number of Previous Employers in ascending order

df\_chart4\_table = count\_PrevEmployers.sort\_values(by=['Number of previous employers'], ascending=True)

# Display Chart 4 Table

df\_chart4\_table

# Plot Horizontal bar chart with sort by number of Previous Employers in ascending order and remove legend

df\_chart4\_table.plot(kind='barh', legend=None, color=colour)

# Define title label

plt.title('Total Number of Previous Employees \n for past and present employees ', fontsize=15)

# Define x-axis label

plt.xlabel("Number of employees", fontsize=15)

# Define y-axis label

plt.ylabel("Number of previous employers", fontsize=15)

# Display grid for x-axis

plt.grid(axis='x')

**1 (c) Codes**

**import** pandas **as** pd  
  
#To read the CSV file  
df **=** pd**.**read\_csv("gba.csv")

**def** display\_staff\_strength(df):   
 *#to filter out employees who have left the company*   
 not\_left\_company **=** df[df["LeftCompany"] **==** "No"]  
 *#to count no. of current employees*  
 current\_strength **=** len(not\_left\_company**.**index)  
 print(f"Total current staff strength: {current\_strength}")  
   
 *#To count current employees in Business Development*  
 bu\_bd **=** not\_left\_company[not\_left\_company["BusinessUnit"] **==** "Business Development"]  
 bd\_strength **=** len(bu\_bd**.**index)  
 *#To count current employees in Business Development whom are male*  
 bu\_bd\_male **=** not\_left\_company[(not\_left\_company["BusinessUnit"] **==** "Business Development") **&** (not\_left\_company["Gender"] **==** "Male")]  
 bd\_male\_strength **=** len(bu\_bd\_male**.**index)  
 *#To count current employees in Business Development whome are female*  
 bu\_bd\_female **=** not\_left\_company[(not\_left\_company["BusinessUnit"] **==** "Business Development") **&** (not\_left\_company["Gender"] **==** "Female")]  
 bd\_female\_strength **=** len(bu\_bd\_female**.**index)  
   
 *#To count current employees in HR*  
 bu\_hr **=** not\_left\_company[not\_left\_company["BusinessUnit"] **==** "HR"]  
 hr\_strength **=** len(bu\_hr**.**index)  
 *#To count current employees in HR whom are male*  
 bu\_hr\_male **=** not\_left\_company[(not\_left\_company["BusinessUnit"] **==** "HR") **&** (not\_left\_company["Gender"] **==** "Male")]  
 hr\_male\_strength **=** len(bu\_hr\_male**.**index)  
 *#To count current employees in HR whom are female*  
 bu\_hr\_female **=** not\_left\_company[(not\_left\_company["BusinessUnit"] **==** "HR") **&** (not\_left\_company["Gender"] **==** "Female")]  
 hr\_female\_strength **=** len(bu\_hr\_female**.**index)  
   
 *#To count current employees in Product Development*  
 bu\_pd **=** not\_left\_company[not\_left\_company["BusinessUnit"] **==** "Product Development"]  
 pd\_strength **=** len(bu\_pd**.**index)  
 *#To count current employees in Product Development whom are male*  
 bu\_pd\_male **=** not\_left\_company[(not\_left\_company["BusinessUnit"] **==** "Product Development") **&** (not\_left\_company["Gender"] **==** "Male")]  
 pd\_male\_strength **=** len(bu\_pd\_male**.**index)  
 *#To count current employees in Product Development whom are female*  
 bu\_pd\_female **=** not\_left\_company[(not\_left\_company["BusinessUnit"] **==** "Product Development") **&** (not\_left\_company["Gender"] **==** "Female")]  
 pd\_female\_strength **=** len(bu\_pd\_female**.**index)

*#display staff strength by business unit and gender in an array*  
 bu **=** {'Business Unit': ['Business Development', 'HR', 'Product Development'],  
 'Male': [bd\_male\_strength, hr\_male\_strength, pd\_male\_strength],  
 'Female': [bd\_female\_strength, hr\_female\_strength, pd\_female\_strength],  
 'Grand Total': [(bd\_male\_strength**+**bd\_female\_strength), (hr\_male\_strength**+**hr\_female\_strength), (pd\_male\_strength**+**pd\_female\_strength)]}  
  
 breakdown\_bu\_gender **=** pd**.**DataFrame(bu)  
 print(breakdown\_bu\_gender)  
   
def display\_staff\_annual\_renumeration(df):   
 *#to filter out employees who have left the company*   
 not\_left\_company **=** df[df["LeftCompany"] **==** "No"]  
 *#display the total current staff annual renumeration expenditure*   
 total\_renumeration **=** not\_left\_company['MonthlyPay']**.**sum()**\***12   
 print("Total Annual Staff Renumeration Expenditure:", total\_renumeration)   
   
 *#display the median monthly salary*   
 median\_salary **=** not\_left\_company['MonthlyPay']**.**median()   
 print("Median Monthly Salary ", median\_salary)   
   
def display\_Eligible\_long\_service\_award\_recipients(df):   
 *#filtering the employees with 35 or longer years of service*   
 eligible\_employees **=** df[df['WithCompany']**>=** 35]   
   
 *#sort employees in descending order in terms of age*   
 eligible\_employees **=** eligible\_employees**.**sort\_values(by**=**'Age', ascending**=False**)   
   
 *#display employees' EmpID, job role and age together*   
 print("Eligible Long Service Award Recipients: ")   
 print(eligible\_employees[['EmpID','JobRole', 'Age']])

choice **=** 0   
#Print Menu   
print("Please select an option :")   
print("1. Current staff stength")   
print("2. Current staff annual renumeration")   
print("3. Eligible long service award recipients")   
print("4. Exit")

# to make a Loop until choice is equal to 4   
while choice **!=**4:   
 choice **=** int(input("\nEnter your choice: "))   
 *#to check if choice is one of the four*   
   
 **if** choice **==** 1:  
 display\_staff\_strength(df)   
 **elif** choice **==** 2:  
 display\_staff\_annual\_renumeration(df)   
 **elif** choice **==** 3:  
 display\_Eligible\_long\_service\_award\_recipients(df)   
 **elif** choice **==** 4:  
 print("Exiting program...")   
 **else**:   
 print("Invalid option. Please enter a number between 1 to 4 ")