NAME Soham Desai
BATCH-B
ROLL NO-11
XIE ID - 202003021

Department of Information Technology

Sem: IV Python Lab 2021-22

Fast Learner Assignment

Q. Using Titanic dataset (dataset can be downloaded from ERP) perform the following task of

a) finding out the information about how many male survived who had cabi

and age is less than 50.

Code:

```
import mysql.connector as sql

myDatabase = sql.connect(host="localhost", user="root", passwd="", database="soham123")

myQuery= myDatabase.cursor()

query = "select * from fastlearner where Sex='male' and Cabin!="" and Age<50 and survived=1;"

myQuery.execute(query)

myResult= (myQuery.fetchall)

print(" - "*20)

print(f"the information about how many male survived who had cabin and age is less than 50:")

print(" - "*20)

for x in myResult:

    print(x)

print(" - "*20)
```

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Output:

```
 - - - - - - - - - - - - - - - - - - - - - - - - - -
the information about how many male survived who had cabin and age is less than 50 :
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(22, 1, 2, 'Beesley, Mr. Lawrence', 'male', 34, 0, 0, '248698', 13.0, 'D56', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(24, 1, 1, 'Sloper, Mr. William Thompson', 'male', 28, 0, 0, '113788', 35.5, 'A6', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(56, 1, 1, 'Woolner, Mr. Hugh', 'male', 0, 0, 0, '19947', 35.5, 'C52', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(98, 1, 1, 'Greenfield, Mr. William Bertram', 'male', 23, 0, 1, 'PC 17759', 63.3583, 'D10 D12', 'C')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(184, 1, 2, 'Becker, Master. Richard F', 'male', 1, 2, 1, '230136', 39.0, 'F4', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(194, 1, 2, 'Navratil, Master. Michel M', 'male', 3, 1, 1, '230080', 26.0, 'F2', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(210, 1, 1, 'Blank, Mr. Henry', 'male', 40, 0, 0, '112277', 31.0, 'A31', 'C')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(225, 1, 1, 'Hoyt, Mr. Frederick Maxfield', 'male', 38, 1, 0, '19943', 90.0, 'C93', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(249, 1, 1, 'Beckwith, Mr. Richard Leonard', 'male', 37, 1, 1, '11751', 52.5542, 'D35', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(299, 1, 1, 'Saalfeld, Mr. Adolphe', 'male', 0, 0, 0, '19988', 30.5, 'C106', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(306, 1, 1, 'Allison, Master. Hudson Trevor', 'male', 1, 1, 2, '113781', 151.55, 'C22 C26', 'S')
```

```
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(306, 1, 1, 'Allison, Master. Hudson Trevor', 'male', 1, 1, 2, '113781', 151.55, 'C22 C26', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(341, 1, 2, 'Navratil, Master. Edmond Roger', 'male', 2, 1, 1, '230080', 26.0, 'F2', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(371, 1, 1, 'Harder, Mr. George Achilles', 'male', 25, 1, 0, '11765', 55.4417, 'E50', 'C')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(391, 1, 1, 'Carter, Mr. William Ernest', 'male', 36, 1, 2, '113760', 120.0, 'B96 B98', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(430, 1, 3, 'Pickard, Mr. Berk (Berk Trembisky)', 'male', 32, 0, 0, 'SOTON/O.Q. 392078', 8.05, 'E10', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(431, 1, 1, 'Bjornstrom-Steffansson, Mr. Mauritz Hakan', 'male', 28, 0, 0, '110564', 26.55, 'C52', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(446, 1, 1, 'Dodge, Master. Washington', 'male', 4, 0, 2, '33638', 81.8583, 'A34', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(454, 1, 1, 'Goldenberg, Mr. Samuel L', 'male', 49, 1, 0, '17453', 89.1042, 'C92', 'C')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(461, 1, 1, 'Anderson, Mr. Harry', 'male', 48, 0, 0, '19952', 26.55, 'E12', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(485, 1, 1, 'Bishop, Mr. Dickinson H', 'male', 25, 1, 0, '11967', 91.0792, 'B49', 'C')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(513, 1, 1, 'McGough, Mr. James Robert', 'male', 36, 0, 0, 'PC 17473', 26.2875, 'E25', 'S')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(551, 1, 1, 'Thayer, Mr. John Borland Jr', 'male', 17, 0, 2, '17421', 110.883, 'C70', 'C')
 - - - - - - - - - - - - - - - - - - - - - - - - - -
(573, 1, 1, 'Flynn, Mr. John Irwin ("Irving"")"', 'male', 36, 0, 0, 'PC 17474', 26.3875, 'E25', 'S')
```

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(600, 1, 1, 'Duff Gordon, Sir. Cosmo Edmund ("Mr Morgan"")"', 'male', 49, 1, 0, 'PC 17485', 56.9292, 'A20', 'C')
(622, 1, 1, 'Kimball, Mr. Edwin Nelson Jr', 'male', 42, 1, 0, '11753', 52.5542, 'D19', 'S')
(633, 1, 1, 'Stahelin-Maeglin, Dr. Max', 'male', 32, 0, 0, '13214', 30.5, 'B50', 'C')
(646, 1, 1, 'Harper, Mr. Henry Sleeper', 'male', 48, 1, 0, 'PC 17572', 76.7292, 'D33', 'C')
(680, 1, 1, 'Cardeza, Mr. Thomas Drake Martinez', 'male', 36, 0, 1, 'PC 17755', 512.329, 'B51 B53 B55', 'C')
(682, 1, 1, 'Hassab, Mr. Hammad', 'male', 27, 0, 0, 'PC 17572', 76.7292, 'D49', 'C')
(691, 1, 1, 'Dick, Mr. Albert Adrian', 'male', 31, 1, 0, '17474', 57.0, 'B20', 'S')
(702, 1, 1, 'Silverthorne, Mr. Spencer Victor', 'male', 35, 0, 0, 'PC 17475', 26.2875, 'E24', 'S')
(708, 1, 1, 'Calderhead, Mr. Edward Pennington', 'male', 42, 0, 0, 'PC 17476', 26.2875, 'E24', 'S')
(713, 1, 1, 'Taylor, Mr. Elmer Zebley', 'male', 48, 1, 0, '19996', 52.0, 'C126', 'S')
(725, 1, 1, 'Chambers, Mr. Norman Campbell', 'male', 27, 1, 0, '113806', 53.1, 'E8', 'S')
(738, 1, 1, 'Lesurer, Mr. Gustave J', 'male', 35, 0, 0, 'PC 17755', 512.329, 'B101', 'C')
```

```
(741, 1, 1, 'Hawksford, Mr. Walter James', 'male', 0, 0, 0, '16988', 30.0, 'D45', 'S')
(752, 1, 3, 'Moor, Master. Meier', 'male', 6, 0, 1, '392096', 12.475, 'E121', 'S')
(803, 1, 1, 'Carter, Master. William Thornton II', 'male', 11, 1, 2, '113760', 120.0, 'B96 B98', 'S')
(840, 1, 1, 'Marechal, Mr. Pierre', 'male', 0, 0, 0, '11774', 29.7, 'C47', 'C')
(890, 1, 1, 'Behr, Mr. Karl Howell', 'male', 26, 0, 0, '111369', 30.0, 'C148', 'C')

Process finished with exit code 0
```

b) show graphical representation of male and female survived and dead in the tragedy.

Code:

```
import mysql.connector as sql
import matplotlib.pyplot as plt
import numpy as np
maleSurvived = 0
maleDeath = 0
femaleSurvived = 0
femaleDeath = 0
myDatabase = sql.connect(host="localhost", user="root",passwd="", database="soham123")
myQuery= (myDatabase.cursor)
queryl="select * from fastlearner where Sex='male' and survived=1"
myQuery.execute(query 1)
myResultl= (myQuery.fetchall)
for x in myResult:
    maleSurvived = maleSurvived+ 1
    print(maleSurvived)
query2="select * from fastlearner where Sex='male' and survived=0"
myQuery.execute(query2)
myResult2= (myQuery.fetchall)
for x in myResult2:
    maleDeath = maleDeath+1
    print(maleDeath)
query3="select * from fastlearner where Sex=female' and survived=1"
myQuery.execute(query3)
myResult3 = (myQuery.fetchall)
for x in myResult3:
    femaleSurvived = femaleSurvived+1
    print(femaleSurvived)
```

```
query4="select * from fastlearner where Sex=female' and survived-0"
myQuery.execute(query4)
myResult4= myQuery.fetchall()
for x in myResult4:
    femaleDeath = femaleDeath+1
    print(femaleDeath)
w = 0.4
xLabel=["Male", "Female"]
Male = [maleSurvived, femaleSurvived]
Female = [maleDeath, femaleDeath]
barl = np.arange(len(xLabel))
bar2 = [i+w for i in bar l]
plt.bar(barl, Male, w, label="Survived")
plt.bar(bar2, Female, w, label="Death")
plt.xlabel("")
plt.ylabel()
plt.xticks(bar1+w/2, xLabel)
plt.legend()
plt.show()
```