Experiment :1

Problem statement:

The probability that it is Friday and that a student is absent is 3 %. Since there are 5 school days in a week, the probability that it is Friday is 20 %. What is the probability that a student is absent given that today is Friday? Apply Baye's rule in python to get the result. (Ans: 15%)

ALGORITHM:

Step 1: Start

Step 2: Calculate probability for each word in a text and filter the words which have a probability less than threshold probability. Words with probability less than threshold probability are irrelevant.

Step 3: Then for each word in the dictionary, create a probability of that word being in insincere questions and its probability insincere questions. Then finding the conditional probability to use in naive Bayes classifier.

Step 4: Prediction using conditional probabilities.

Step 5: End.

PROGRAM:

```
PFIA=float(input("Enter probability that it is Friday and that a student is
        absent="))
PF=float(input("probability that it is Friday="))
PABF=PFIA / PF*100
print("probability that a student is absent given that today is Friday using
conditional probabilities=",PABF)
```

OUTPUT:

```
Enter probability that it is Friday and that a student is absent=0.03
probability that it is Friday=0.2
probability that a student is absent given that today is Friday using conditional
probabilities= 15
```

Result: The program has been executed successfully and found the probability of a student absent on Friday.

Experiment :2

Problem statement: Extract the data from database using python.

ALGORITHM:

Step1: Start
Step2: Connect to MySQL from Python
Step3: Define a SQL SELECT Query
Step4: Get Cursor Object from Connection
Step5: Execute the SELECT query using execute() method
Step6: Extract all rows from a result
Step7: Iterate each row
Step8: Close the cursor object and database connection object
Step9: End.

PROCEDURE

CREATING A DATABASE IN MYSQL AS FOLLOWS:

CREATE DATABASE myDB;
SHOW DATABASES;
USE myDB
CREATE TABLE student (id INT, name VARCHAR(20), email VARCHAR(20));
SHOW TABLES;
INSERT INTO student (id,name,email) VALUES(1,"anjaneyulu","xyz@abc.com");
… **SELECT *FROM students;**
We need to install **mysql-connector** to connect Python with MySQL. You can use the below command to install this in your system.
pip install mysql-connector-python-rf in python
(OR)
conda install anaconda::mysql-connector-python in anaconda

PYTHON SOURCE CODE:

```
import mysql.connector
mydb = mysql.connector.connect(host="localhost",user="root",password="root",database="myDB")
mycursor = mydb.cursor()
mycursor.execute("SELECT * FROM student")
myresult = mycursor.fetchall()
for x in myresult:
print(x)
```

output:

```
(1, 'anjaneyulu', 'xyz@abc.com')
(2, 'Subbu', 'sss@bbc.com')
```

Result: The program has been executed successfully and accessed the data from mysql data base.