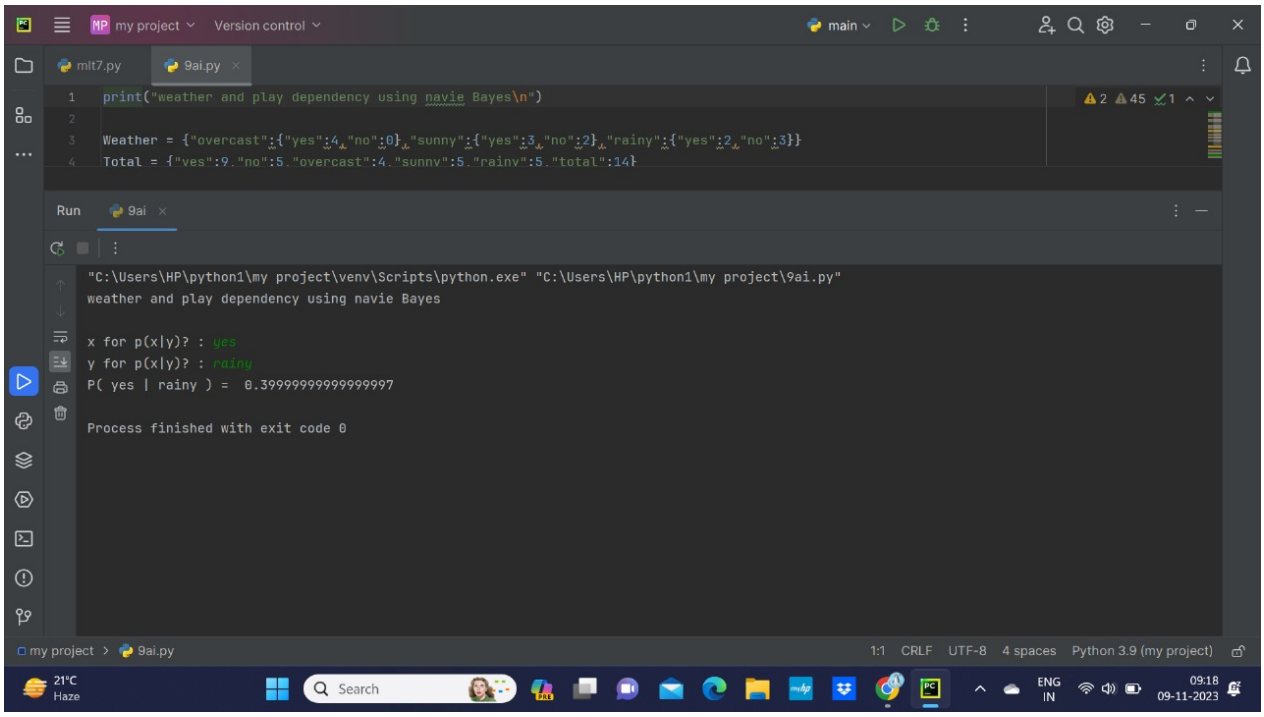
Practical no -9

Code :-

```
print("weather and play dependency using navie Bayes\n")

Weather = {"overcast":{"yes":4,"no":0},"sunny":{"yes":3,"no":2},"rainy":{"yes":2,"no":3}}
Total = {"yes":9,"no":5,"overcast":4,"sunny":5,"rainy":5,"total":14}

def P(x,y):
    result = (prob(x) * prob2(y,x))/prob(y)
    return result
def prob(s):
    for element in Total:
        if s == element :
            value = Total[element]/Total["total"]
    return value

def prob2(u,v):
    for element in Weather:
        if u == element :
            w = Weather[u]
            for element2 in w :
                if v == element2:
                    val = w[v]
    val2 = Total[v]
    val3 = val/val2
    return val3

x = input("x for p(x|y)? : ")
y = input("y for p(x|y)? : ")
res = P(x,y)

print("P(",x,"|",y,") = ",res)
```


my project
Version control
main
mlt7.py
9ai.py
print("weather and play dependency using navie Bayes\n")
Weather = {"overcast":{"yes":4,"no":0},"sunny":{"yes":3,"no":2},"rainy":{"yes":2,"no":3}}
Total = {"yes":9,"no":5,"overcast":4,"sunny":5,"rainy":5,"total":14}
Run
9ai
"C:\Users\HP\python1\my project\venv\Scripts\python.exe" "C:\Users\HP\python1\my project\9ai.py"
weather and play dependency using navie Bayes
x for p(x|y)? : yes
y for p(x|y)? : rainy
P(yes | rainy) = 0.39999999999999997
Process finished with exit code 0
my project > 9ai.py
1:1 CRLF UTF-8 4 spaces Python 3.9 (my project)
21°C Haze
Search
ENG IN
09:18 09-11-2023