



**Ganpat  
University**

॥ विद्यया समाजोत्कर्षः ॥

**Institute of  
Computer  
Technology**

**Name: Tushar Panchal**

**En.No: 21162101014**

**Sub: P&S(Probability & Statistics)**

**Branch: CBA**

**Batch:41**

## **PRACTICAL 9**

❖ **Question :** To study Conditional Probability.

✓ **Source Code :**

```
clc;
clear all;
close all;
pkg load io
C = xlsread('Samp.xlsx', 'S11');
S = xlsread('Samp.xlsx', 'K11');
[rows, cols] = size(C)

for i = 1:rows
    A = C(i, :);
    counts(i) = length(find(A==S));
endfor

result = max(counts)
ind = find(counts==result)
bar(1:rows, counts / cols)
title('Conditional Probability')
```

```
xlabel('Index')  
ylabel('Probability')  
set(gca, 'fontsize', 15)
```

✓ **Output :**

```
rows = 52  
cols = 34  
result = 30  
ind = 10
```

