**Practical 9**

**PROBABILITY THEORIES**

**1) Calculates probability of sum of tossing two dice**

**Code:**

clc ;

clear ;

clf ;

N = 10000;

count = 0;

for i = 1: N

y1 = ceil ( rand (1) \*6) ;

y2 = ceil ( rand (1) \*6) ;

if (( y1 + y2 ) == 3)

count = count + 1;

end

prob1 ( i ) = count / i ;

end

plot ( prob1 )

xlabel ('Number of Trials') ;

ylabel ('Probaility') ;

title ('Probabilty of getting sum of dots on faces of a die to be 3') ;