**Name : Ramashish kumar**

**Group : D**

**Practical 19**

**Code :**

#include<stdio.h>

#include<math.h>

#include<stdlib.h>

#include<time.h>

main()

{

int n1,n2,x1,x2;

float p1,p2,q1,q2,tau;

printf("Enter the total number of men in the random sample:");

scanf("%d",&n1);

printf("Enter the total number of women in the random sample:");

scanf("%d",&n2);

printf("Enter the number of men in favour of the proposal:");

scanf("%d",&x1);

printf("Enter the number of women in favour of the proposal:");

scanf("%d",&x2);

p1=(float)x1/n1;

p2=(float)x2/n2;

q1=1-p1;

q2=1-p2;

tau=(p1-p2)/(sqrt((p1\*q1/n1)+(p2\*q2/n2)));

printf("The value of the test statistic is:%f",tau);

if(abs(tau)<1.96)

{

printf("\nWe fail to reject the null hypothesis");

}

else

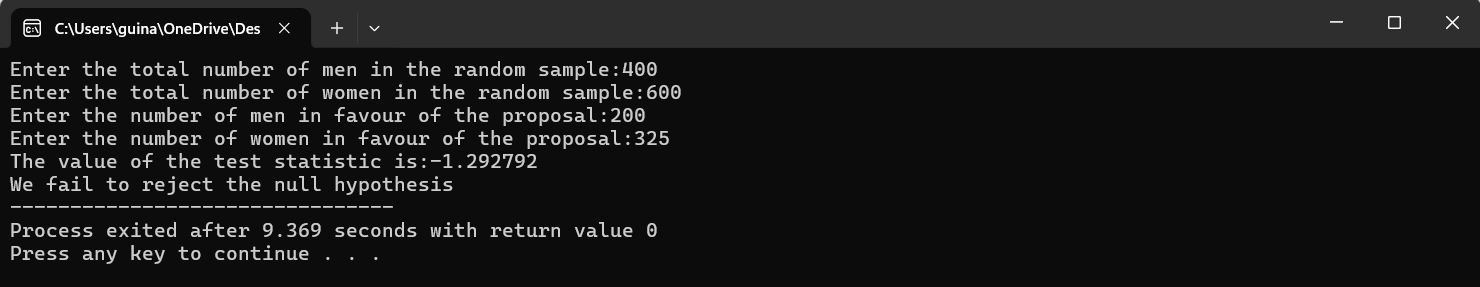
{

printf("\nWe reject the null hypothesis");

}

}

**OUTPUT :**

****