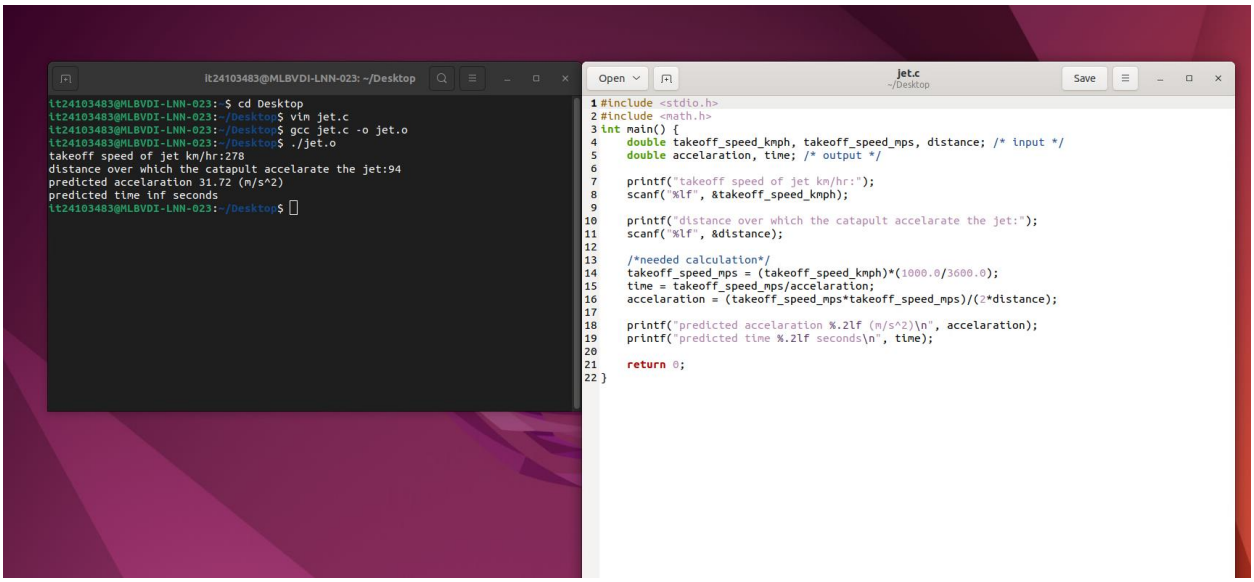
it24103483@MLBVDI-LNN-023: ~/Desktop
it24103483@MLBVDI-LNN-023:~$ cd Desktop
it24103483@MLBVDI-LNN-023:~/Desktop$ vim jet.c
it24103483@MLBVDI-LNN-023:~/Desktop$ gcc jet.c -o jet.o
it24103483@MLBVDI-LNN-023:~/Desktop$ ./jet.o
takeoff speed of jet km/hr:278
distance over which the catapult accelarate the jet:94
predicted accelaration 31.72 (m/s^2)
predicted time inf seconds
it24103483@MLBVDI-LNN-023:~/Desktop$
Open
jet.c
~/Desktop
Save
1 #include <stdio.h>
2 #include <math.h>
3 int main() {
4 double takeoff_speed_kmph, takeoff_speed_mps, distance; /* input */
5 double accelaration, time; /* output */
6
7 printf("takeoff speed of jet km/hr:");
8 scanf("%lf", &takeoff_speed_kmph);
9
10 printf("distance over which the catapult accelarate the jet:");
11 scanf("%lf", &distance);
12
13 /*needed calculation*/
14 takeoff_speed_mps = (takeoff_speed_kmph)*(1000.0/3600.0);
15 time = takeoff_speed_mps/accelaration;
16 accelaration = (takeoff_speed_mps*takeoff_speed_mps)/(2*distance);
17
18 printf("predicted accelaration %.2lf (m/s^2)\n", accelaration);
19 printf("predicted time %.2lf seconds\n", time);
20
21 return 0;
22 }