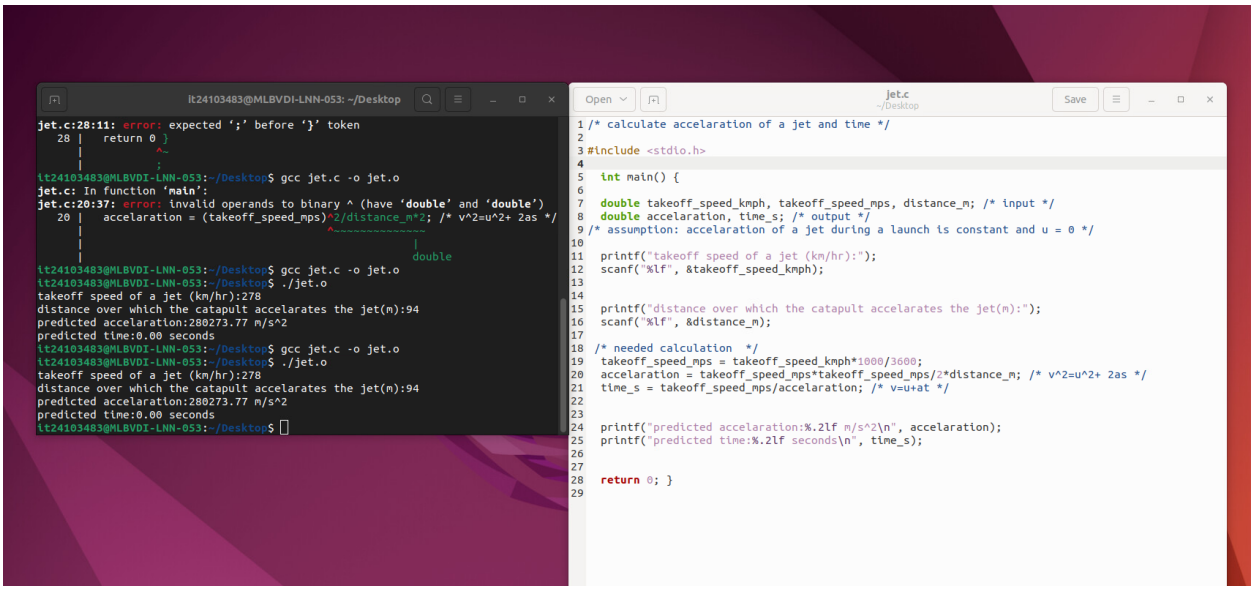
it24103483@MLBVDI-LNN-053: ~/Desktop
jet.c:28:11: error: expected ';' before '}' token
28 | return 0 }
| ^~
| ;
it24103483@MLBVDI-LNN-053:~/Desktop$ gcc jet.c -o jet.o
jet.c: In function 'main':
jet.c:20:37: error: invalid operands to binary ^ (have 'double' and 'double')
20 | accelaration = (takeoff_speed_mps)^2/distance_m*2; /* v^2=u^2+ 2as */
| ^~~~~~~~~~~~~~
| |
| double
it24103483@MLBVDI-LNN-053:~/Desktop$ gcc jet.c -o jet.o
it24103483@MLBVDI-LNN-053:~/Desktop$ ./jet.o
takeoff speed of a jet (km/hr):278
distance over which the catapult accelarates the jet(m):94
predicted accelaration:280273.77 m/s^2
predicted time:0.00 seconds
it24103483@MLBVDI-LNN-053:~/Desktop$ gcc jet.c -o jet.o
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predicted accelaration:280273.77 m/s^2
predicted time:0.00 seconds
it24103483@MLBVDI-LNN-053:~/Desktop$
Open
jet.c
~/Desktop
Save
1 /* calculate accelaration of a jet and time */
2
3 #include <stdio.h>
4
5 int main() {
6
7 double takeoff_speed_kmph, takeoff_speed_mps, distance_m; /* input */
8 double accelaration, time_s; /* output */
9 /* assumption: accelaration of a jet during a launch is constant and u = 0 */
10
11 printf("takeoff speed of a jet (km/hr):");
12 scanf("%lf", &takeoff_speed_kmph);
13
14
15 printf("distance over which the catapult accelarates the jet(m):");
16 scanf("%lf", &distance_m);
17
18 /* needed calculation */
19 takeoff_speed_mps = takeoff_speed_kmph*1000/3600;
20 accelaration = takeoff_speed_mps*takeoff_speed_mps/2*distance_m; /* v^2=u^2+ 2as */
21 time_s = takeoff_speed_mps/accelaration; /* v=u+at */
22
23
24 printf("predicted accelaration:%.2lf m/s^2\n", accelaration);
25 printf("predicted time:%.2lf seconds\n", time_s);
26
27
28 return 0; }
29