```
File - D:\cpl\2023-cpl-coding-0\7-data-types\implicit-conversion.c
 1 //
 2 // Created by hfwei on 2022/11/10.
 3 //
 5 #include <limits.h>
 6 #include <stdio.h>
 8 int SquareInt(int num);
 9 double SquareDouble(double num);
10
11 int main() {
    // narrowing conversion (still in the range)
13
     int i = 3.14159;
14
15
     // out of the range: undefined behavior!!!
16
     int j = UINT_MAX;
17
18
     // arguments; narrowing conversion
19
     double k = 3.14159;
20
     SquareInt(k);
21
22
     // return value; narrowing conversion
23
     int m = SquareDouble(k);
24
25
     int big = 1234567890;
26
     float approx = big;
27
     int approx_big = (int) approx;
28
     printf("big = %d\t approx = %f\t approx_big = %d\t diff = %d\n",
29
             big, approx, approx_big, big - (int) approx);
30
31
     return 0;
32 }
33
34 int SquareInt(int num) {
35  return num * num;
36 }
37
38 double SquareDouble(double num) {
39
    return num * num;
40 }
```