```c
/*  Pointer example ptr05.F2003.c    -     Pointer declarations, typing, dereferencing  */
/*  Also, what happens if wrong  type  assignment is attempted   */


#include <stdio.h>


main( )
{
        int a = 7 ;
        double b = 3.4 ;

        int * c ;                               /*  points to locations holding an int  */
        double * d ;                            /*  points to locations holding a double  */



        printf( "a contains %d \n", a ) ;
        c  =  &a ;
        printf( "Contents of loc pointed to by c is %d \n", *c ) ;


        c = &b ;         /* quincy:   ptr05.c: 15: warning: assignment from incompatible
                                                            pointer type    */
        printf( "Contents of loc pointed to by c is %d \n\n", *c ) ;  // print double with %d



        printf( "b contains %lf \n", b ) ;
        d = &b ;
        printf( "Contents of loc pointed to by d is %lf \n", *d ) ;


        d = &a ;         /* quincy:    ptr05.c: 24: warning: assignment from incompatible
                                                            pointer type    */
        printf( "Contents of loc pointed to by d is %lf \n", *d ) ;  // print int with %lf
}
```

```
a contains 7
Contents of loc pointed to by c is 7
Contents of loc pointed to by c is 858993459        <=====

b contains 3.400000
Contents of loc pointed to by d is 3.400000
Contents of loc pointed to by d is 0.000000         <=====
```