```
1 #include <stdio.h>
 2
 3 int main(void)
 4 {
 5
       //variable declarations
 6
       double num;
 7
        double *ptr = NULL; //Declaration Method 1 :- '*ptr' is a variable of type
 8
 9
       //code
       num = 2.34343434f;
10
11
12
       printf("\n\n");
13
14
       printf(" ****** BEFORE ptr = &num ******\n\n");
       printf("Value Of 'num'
                                         = %lf\n\n", num);
15
       printf("Address Of 'num'
16
                                        = %p\n\n", &num);
       printf("Value At Address Of 'num' = %lf\n\n", *(&num));
17
18
19
       //Assigning address of variable 'num' to pointer variable 'ptr'
20
       //'ptr' now contains address of 'num'...hence, 'ptr' is SAME as '&num'
       ptr = #
21
22
23
       printf("\n\n");
24
       printf(" ****** AFTER ptr = &num ******\n\n");
25
       printf("Value Of 'num'
26
                                         = %lf\n\n", num);
27
       printf("Address Of 'num'
                                        = %p\n\n", ptr);
28
       printf("Value At Address Of 'num' = %lf\n\n", *ptr);
29
30
       return(0);
31 }
32
```