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