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