Tasks

- 1) Write a program to declare an integer, a pointer to that integer and demonstrate the use of pointer to modify the value of the integer.
- 2) Write a program to declare an integer variable, and a pointer to that integer.
- 3) Write a program that takes two pointers and swaps by using pass by reference.

TASK 1!

TASK 2!

```
#include<stdio.h>
- int main() {
    int n = 5;
    int *p = &n;
    printf("Value of number: %d\n", n);
    printf("pointer of the number is %d\n", &p);

printf("Address of number: %d\n", &n);
    printf("Address of number: %d\n", &n);
    printf("Address stored in pointer: %D\n", &p);

return 0;
}
```

TASK3!

```
19
                                                                          Before swap:
     int x=5;
                                                                          x = 5, y = 10
20 int y=10;
                                                                          After swap (using temp variable):
21 printf("After swapValue : \n");
22 printf("x=%d,b=%d",a,b);
                                                                           x = 10, y = 5
                                                                          After swap (using pointers):
23
                                                                          x = 5, y = 10
24
      return 0;
25 }*/
26 #include <stdio.h>
                                                                          === Code Execution Successful ===
27 - int main() {
                                                                           === Session Ended. Please Run the code again ===
28 int x = 5;
29 int y = 10;
30 printf("Before swap: \n");
     printf("x = %d, y = %d\n", x, y);
int temp = x;
31
32
33
       printf("After swap (using temp variable): \n");
35
36
       printf("x = %d, y = %d\n", x, y);
37
       int *px = &x;
38
       int *py = &y;
39
       int temp2 = *px;
40
       *px = *py;
*py = temp2;
41
42
       printf("After swap (using pointers): \n");
43
       printf("x = %d, y = %d\n", x, y);
       return 0;
44
45 }
```