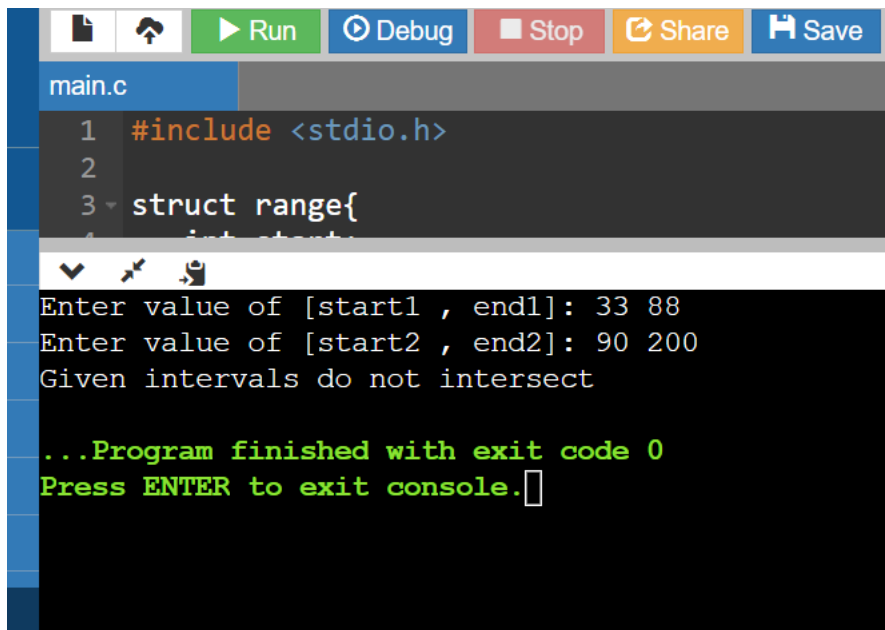


LAB ASSIGNMENT 15



The screenshot shows a code editor with a file named 'main.c'. The code defines a 'struct range' and prompts the user for two intervals. The first interval is [33, 88] and the second is [90, 200]. The program outputs 'Given intervals do not intersect' and finishes with exit code 0.

```
main.c
1  #include <stdio.h>
2
3  struct range{
4      int start1;
5      int end1;
6      int start2;
7      int end2;
8  };
9
10 int main()
11 {
12     int start1, end1, start2, end2;
13     printf("Enter value of [start1 , end1]: ");
14     scanf("%d %d", &start1, &end1);
15     printf("Enter value of [start2 , end2]: ");
16     scanf("%d %d", &start2, &end2);
17     if (start1 < start2 & end1 < end2)
18         printf("Given intervals do not intersect\n");
19     else
20         printf("Given intervals intersect\n");
21     return 0;
22 }
```

Enter value of [start1 , end1]: 33 88
Enter value of [start2 , end2]: 90 200
Given intervals do not intersect

...Program finished with exit code 0
Press ENTER to exit console.

Inference-

It checks for non overlapping condition. If it's fulfilled, it returns 0 and prints that the 2 intervals don't intersect. Otherwise it'll return 1 since the 2 intervals intersect.