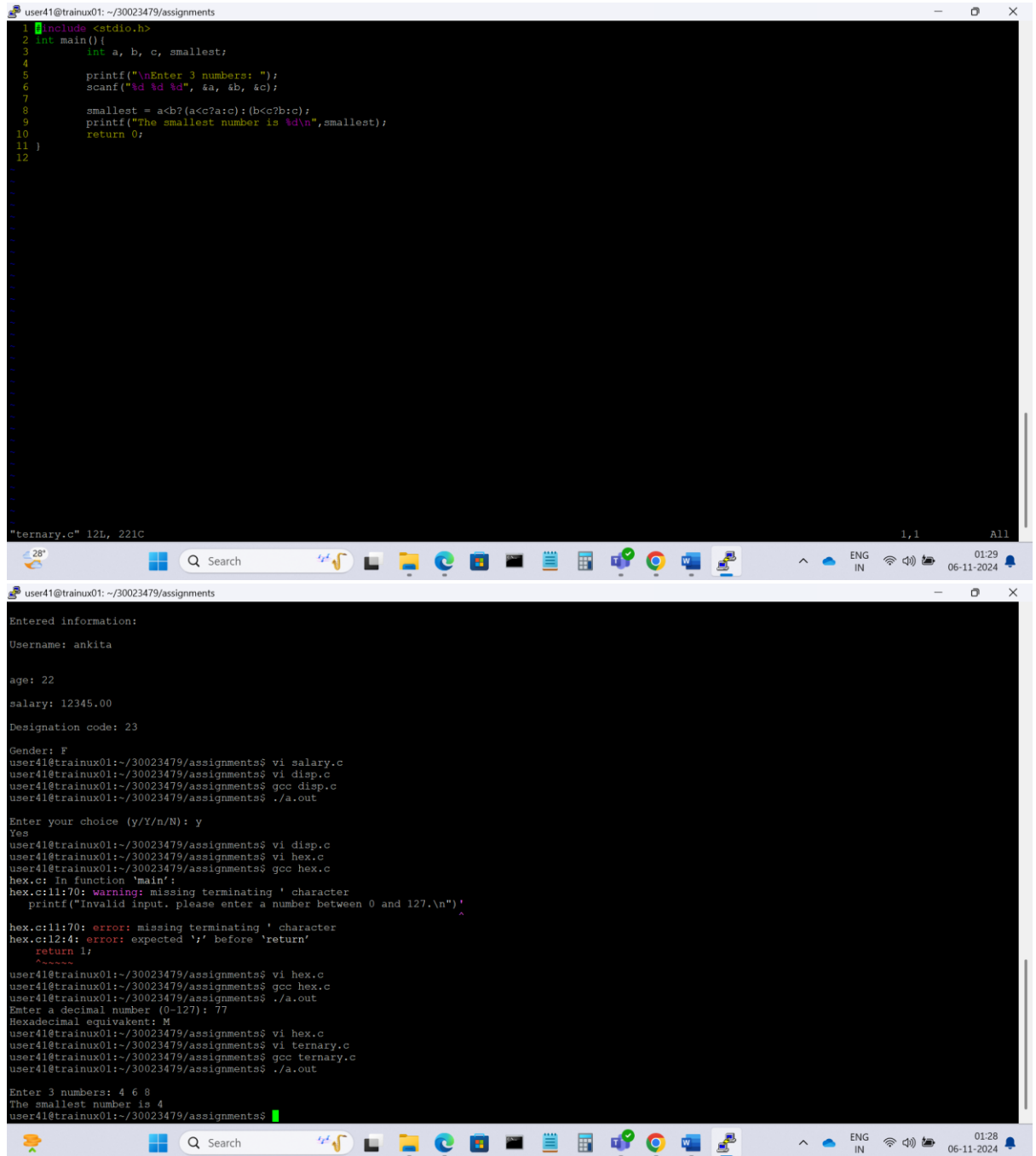


If else Switch case Ternary Assignment

1. Using ternary operator compare 3 numbers and display the smallest number

Ans:



```
user41@trainux01: ~/30023479/assignments
1 #include <stdio.h>
2 int main(){
3     int a, b, c, smallest;
4
5     printf("\nEnter 3 numbers: ");
6     scanf("%d %d %d", &a, &b, &c);
7
8     smallest = a < b ? (a < c ? a : c) : (b < c ? b : c);
9     printf("The smallest number is %d\n", smallest);
10    return 0;
11 }
12
```

"ternary.c" 12L, 221C

Entered information:
Username: ankita
age: 22
salary: 12345.00
Designation code: 23
Gender: F
user41@trainux01:~/30023479/assignments\$ vi salary.c
user41@trainux01:~/30023479/assignments\$ vi disp.c
user41@trainux01:~/30023479/assignments\$ gcc disp.c
user41@trainux01:~/30023479/assignments\$./a.out
Enter your choice (y/Y/n/N): y
Yes
user41@trainux01:~/30023479/assignments\$ vi disp.c
user41@trainux01:~/30023479/assignments\$ vi hex.c
user41@trainux01:~/30023479/assignments\$ gcc hex.c
hex.c: In function 'main':
hex.c:11:70: warning: missing terminating ' character
printf("Invalid input. please enter a number between 0 and 127.\n")'
hex.c:11:70: error: missing terminating ' character
hex.c:12:4: error: expected ';' before 'return'
return 1;
user41@trainux01:~/30023479/assignments\$ vi hex.c
user41@trainux01:~/30023479/assignments\$ gcc hex.c
user41@trainux01:~/30023479/assignments\$./a.out
Enter a decimal number (0-127): 77
Hexadecimal equivalent: M
user41@trainux01:~/30023479/assignments\$ vi hex.c
user41@trainux01:~/30023479/assignments\$ vi ternary.c
user41@trainux01:~/30023479/assignments\$ gcc ternary.c
user41@trainux01:~/30023479/assignments\$./a.out
Enter 3 numbers: 4 6 8
The smallest number is 4
user41@trainux01:~/30023479/assignments\$

2. WAP to read a designation code and display his designation as a string. Use the following mapping.
 - 2 – Software Developer
 - 3 – Senior Software Developer
 - 4 – Team Lead
 - 5 – Senior Team Lead

Ans:

```
user41@trainu01: ~/30023479/assignments
1 #include <stdio.h>
2 int main() {
3     int code;
4
5     printf("Enter the designation code (2-5): ");
6     scanf("%d", &code);
7
8     switch (code)
9     {
10         case 2: printf("software Developer I\n");
11                 break;
12         case 3: printf("senior software Developer \n\n");
13                 break;
14         case 4: printf("Team lead\n");
15                 break;
16         case 5: printf("senior team lead\n");
17                 break;
18         default: printf("software Developer I\n");
19                 break;
20     }
21     return 0;
22 }
```

desig.c" 27L, 422C

1,1 All

```
user41@trainu01: ~/30023479/assignments
age: 22
salary: 12345.00
Designation code: 23
Gender: F
user41@trainu01:~/30023479/assignments$ vi salary.c
user41@trainu01:~/30023479/assignments$ vi disp.c
user41@trainu01:~/30023479/assignments$ gcc disp.c
user41@trainu01:~/30023479/assignments$ ./a.out
Enter your choice (y/Y/n/N): y
hex
user41@trainu01:~/30023479/assignments$ vi disp.c
user41@trainu01:~/30023479/assignments$ vi hex.c
user41@trainu01:~/30023479/assignments$ gcc hex.c
hex.c: in function 'main':
hex.c:11:70: warning: missing terminating ' character
printf("Invalid input. please enter a number between 0 and 127.\n")'
^
hex.c:11:70: error: missing terminating ' character
hex.c:12:4: error: expected ';' before 'return'
return 1;
~~~~~
user41@trainu01:~/30023479/assignments$ vi hex.c
user41@trainu01:~/30023479/assignments$ gcc hex.c
user41@trainu01:~/30023479/assignments$ ./a.out
Enter a decimal number (0-127): 77
Hexadecimal equivalent: M
user41@trainu01:~/30023479/assignments$ vi hex.c
user41@trainu01:~/30023479/assignments$ vi ternary.c
user41@trainu01:~/30023479/assignments$ gcc ternary.c
user41@trainu01:~/30023479/assignments$ ./a.out
Enter 3 numbers: 4 6 9
The smallest number is 4
user41@trainu01:~/30023479/assignments$ vi ternary.c
user41@trainu01:~/30023479/assignments$ vi desig.c
user41@trainu01:~/30023479/assignments$ gcc desig.c
user41@trainu01:~/30023479/assignments$ ./a.out
Enter the designation code (2-5): 3
senior software Developer
user41@trainu01:~/30023479/assignments$
```

3. WAP to test the eligibility for deployment post training. Need to fulfill all the 4 conditions. Read the score inputs from user at runtime. (Use if else and switch together).
 - i. Test1 Score $\geq 75\%$
 - ii. Test2 Score $\geq 75\%$
 - iii. Test3 Score $\geq 70\%$
 - iv. Project Score $\geq 75\%$

Ans:

```
user41@trainux01: ~/30023479/assignments
1 #include <stdio.h>
2 int main()
3 {
4     int test1_score, test2_score, test3_score, project_score;
5
6     printf("Enter test1 score: ");
7     scanf("%d", &test1_score);
8
9     printf("Enter test2 score: ");
10    scanf("%d", &test2_score);
11
12    printf("Enter test3 score: ");
13    scanf("%d", &test3_score);
14
15    printf("Enter project score: ");
16    scanf("%d", &project_score);
17
18    if(test1_score >= 75 && test2_score >= 75 && test3_score >= 70 && project_score >= 75)
19    {
20        printf("Eligible for deployment!\n");
21    }
22    else
23        printf("not eligible for deployment\n");
24    return 0;
25 }
```

"test.c" 24L, 535C 1,1 All

```
user41@trainux01: ~/30023479/assignments
user41@trainux01:~/30023479/assignments$ gcc disp.c
user41@trainux01:~/30023479/assignments$ ./a.out
Enter your choice (y/Y/n/N): y
Yes
user41@trainux01:~/30023479/assignments$ vi disp.c
user41@trainux01:~/30023479/assignments$ vi hex.c
user41@trainux01:~/30023479/assignments$ gcc hex.c
hex.c: In function 'main':
hex.c:11:70: warning: missing terminating ' character
printf("Invalid input. please enter a number between 0 and 127.\n")'
^
hex.c:11:70: error: missing terminating ' character
hex.c:12:44: error: expected ';' before 'return'
return 1;
^~~~~~
user41@trainux01:~/30023479/assignments$ vi hex.c
user41@trainux01:~/30023479/assignments$ gcc hex.c
user41@trainux01:~/30023479/assignments$ ./a.out
Enter a decimal number (0-127): 77
Hexadecimal equivalent: M
user41@trainux01:~/30023479/assignments$ vi hex.c
user41@trainux01:~/30023479/assignments$ vi ternary.c
user41@trainux01:~/30023479/assignments$ gcc ternary.c
user41@trainux01:~/30023479/assignments$ ./a.out
Enter 3 numbers: 4 6 8
The smallest number is 4
user41@trainux01:~/30023479/assignments$ vi ternary.c
user41@trainux01:~/30023479/assignments$ vi desig.c
user41@trainux01:~/30023479/assignments$ gcc desig.c
user41@trainux01:~/30023479/assignments$ ./a.out
Enter the designation code (2-5): 3
Senior Software Developer
user41@trainux01:~/30023479/assignments$ vi desig.c
user41@trainux01:~/30023479/assignments$ vi test.c
user41@trainux01:~/30023479/assignments$ gcc test.c
user41@trainux01:~/30023479/assignments$ ./a.out
Enter test1 score: 80
Enter test2 score: 89
Enter test3 score: 78
Eligible for deployment!
user41@trainux01:~/30023479/assignments$
```