

If else Switch case Ternary Assignment

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

Sol:

```
#include <stdio.h>

int main() {

    int a, b, c;

    printf("Enter the first number: ");

    scanf("%d", &a);

    printf("Enter the second number: ");

    scanf("%d", &b);

    printf("Enter the third number: ");

    scanf("%d", &c);

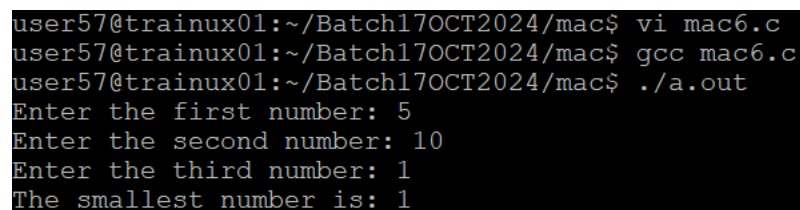
    int smallest = (a < b) ? (a < c ? a : c) : (b < c ? b : c);

    printf("The smallest number is: %d\n", smallest);

    return 0;

}
```

Output:



```
user57@trainux01:~/Batch17OCT2024/mac$ vi mac6.c
user57@trainux01:~/Batch17OCT2024/mac$ gcc mac6.c
user57@trainux01:~/Batch17OCT2024/mac$ ./a.out
Enter the first number: 5
Enter the second number: 10
Enter the third number: 1
The smallest number is: 1
```

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
anyother value – incorrect designation code

Sol:

```
#include <stdio.h>

int main() {

    int code;

    printf("Enter designation code (1-4): ");

    scanf("%d", &code);

    switch (code) {

        case 1:

            printf("Software Developer\n");

            break;

        case 2:

            printf("Senior Software Developer\n");

            break;

        case 3:

            printf("Team Lead\n");

            break;

        case 4:

            printf("Senior Team Lead\n");

            break;

        default:

            printf("Incorrect designation code\n");

            break;

    }

    return 0;

}
```

Output:

```
user57@trainux01:~/Batch17OCT2024/if_else$ vi switch.c
user57@trainux01:~/Batch17OCT2024/if_else$ gcc switch.c
user57@trainux01:~/Batch17OCT2024/if_else$ ./a.out
Enter designation code (1-4): 3
Team Lead
```

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 $\geq 75\%$

Sol:

```
#include <stdio.h>
```

```
int main() {
```

```
    float test1, test2, test3, project;
```

```
    printf("Enter Test 1 score: ");
```

```
    scanf("%f", &test1);
```

```
    printf("Enter Test 2 score: ");
```

```
    scanf("%f", &test2);
```

```
    printf("Enter Test 3 score: ");
```

```
    scanf("%f", &test3);
```

```
    printf("Enter Project score: ");
```

```
    scanf("%f", &project);
```

```
    if (test1  $\geq$  75.0 && test2  $\geq$  75.0 && test3  $\geq$  70.0 && project  $\geq$  75.0) {
```

```
        switch(1){
```

```
            case 1:
```

```
                printf("Eligibility Status: Eligible for Deployment\n");
```

```
                break;
```

```
            default:
```

```
                break;
```

```
        }
```

```
    } else
```

```
switch(0){  
    case 0:  
        printf("Eligibility Status: Not Eligible for Deployment\n");  
        break;  
    default:  
        break;  
}  
  
}  
  
return 0;  
}
```

Output:

```
Enter Test 1 score: 75  
Enter Test 2 score: 75  
Enter Test 3 score: 75  
Enter Project score: 75  
Eligibility Status: Eligible for Deployment
```