Task # 4: Grade Calculator

```
main5.cpp
      int main()
 4 □ {
 5
           int score;
 6
7
8
           // Taking input
printf("Enter the student's score: ");
 9
           scanf("%d", &score);
10
11 🖨
           if (score >= 90) {
  printf("Grade: A\n");
                                                             ■ Select C:\Users\Dell\Documents\task 7 lab 4.exe
12
13
                                                            Enter the student's score: 68
14 🖨
           else if (score >= 80) {
printf("Grade: B\n");
                                                            Grade: D
15
16
           else if (score >= 70) {
  printf("Grade: C\n");
                                                             Process exited after 4.913 seconds with return value 0
18
18
19 -
20 =
                                                             ress any key to continue . . .
           else if (score >= 60) {
21
                printf("Grade: D\n");
21
22 -
23 =
              printf("Grade: F\n");
24
25
27
           return 0;
```

Task # 5: Traffic Signal Control

```
(globals)
 Debug
            main5.cpp
             1 #include <stdio.h>
                   int main()
          5 6 7 8 9 10 11 11 12 13 14 15 16 16 17 18 19 20 21 22 23 24 -
                        // Taking input
printf("Enter traffic light color (1 for Red, 2 for Yellow, 3 for Green): ");
scanf("%d", &color);
                                                                                 ■ Select C:\Users\Dell\Documents\task 7 lab 4.exe
                        // Using switch-case
switch (color) {
   case 1:
                                                                                 Enter traffic light color (1 for Red, 2 for
                                printf("Action: Stop\n");
break;
                                                                                  rocess exited after 3.851 seconds with return value 0
                              printf("Action: Ready\n");
break;
                             case 3:
                             printf("Action: Go\n");
break;
default:
                                 printf("Invalid input! Please enter 1, 2, or 3.\n");
            25
26
🐧 Resources 📶 Compile Log 🧭 Debug 🗓 Find Results 🍇 Close
          Compilation results...
              France 0
```

Task # 6: Basic Calculator

```
ebug main5.cpp
             1 #include <stdio.h>
              2
3  int main() {
    double num1, num2;
                           // Taking input
printf("Enter first number: ");
scanf("%1f", &num1);
                                                                                                                                    C:\Users\Dell\Documents\task 7 lab 4.exe
            10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
33
34
35
                            printf("Enter an operator (+, -, *, /): ");
scanf(" %c", &op);
                                                                                                                                    inter an operator (+, -, *, /): *
inter second number: 5
Result: 20.00
                           printf("Enter second number: ");
scanf("%1f", &num2);
                                  switch (op) {
case '+':
                                                                                                                                     rocess exited after 12.05 seconds with return value 0 ress any key to continue . . .
                                    ase '+':
    printf("Result: %.2lf\n", num1 + num2);
    break;
                                  printf("Result: %.21f\n", num1 - num2);
break;
case '*':
                                 case "":
    printf("Result: %.21f\n", num1 * num2);
    break;
case '/':
    if (num2 != 0)
        printf("Result: %.21f\n", num1 / num2);
}
                                        else
                                              printf("Error: Division by zero is not allowed.\n");
                                  default:
    printf("Invalid operator! Please use +, -, *, or /.\n");
             36
37
Resources 📶 Compile Log 🥏 Debug 🗓 Find Results
```

Task # 7: Leap Year Check

Task # 8: Number Sign Checker

```
1 #include <stdio.h>
  2
3 int main()
4 ☐ {
            int num;
            // Taking input
printf("Enter a number: ");
scanf("%d", &num);
  9
  10
 11
12 🚍
            if (num > 0)
 13
14
15
16 =
                 printf("%d is Positive.\n", num);
                                                                           C:\Users\Dell\Documents\task 7 lab 4.exe
                printf("%d is Negative.\n", num);
 17
18
19
20 = 21
22 - 23
24
                                                                          6 is Positive.
            else
                                                                          Process exited after 2.551 seconds with return value 0
                printf("The number is zero.\n");
                                                                           ress any key to continue . . .
            return 0;
 25
26
es 📶 Compile Log 🤣 Debug 🗓 Find Results 🖏 Close
 Compilation results...
```

Task # 9: Day Name from Number

```
(globals)
lasses Debug
                      main5.cpp
                    k 7 lab 4
                                    // Taking input
printf("Enter a number (1-7): ");
scanf("%d", &day);
                                   // Using switch-case
switch (day) {
   case 1:
        printf("Monday\n");
        break;
                                          case 2:
printf("Tuesday\n");
break;
                                                                                                          C:\Users\Dell\Documents\task 7 lab 4.exe
                                            printf("Wednesday\n");
break;
                     19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
                                          case 4:
                                          case 4:
    printf("Thursday\n");
    break;
case 5:
    printf("Friday\n");
    break;
                                                                                                             rocess exited after 2.496 seconds with return value 0
                                                                                                             ress any key to continue . . .
                                           printf("Saturday\n");
break;
                                          case 7:
    printf("Sunday\n");
    break;
                                          default:
                                              printf("Invalid input! Please enter a number between 1 and 7.\n");
                                    return 0;
```

Task # 10. Simple Password Validator

```
buy

main5.cpp

#include <stdio.h>

#include <stdio.h

#in
```