```
▷ III ···
          X 🥏 any.py
                           chat query.py
C C.C
C C.C > main()
      #include <stdio.h>
      int main()
          int age:
          printf("Enter the age: ");
          scanf("%d", &age);
          if (age \geq 18)
               printf("Candidate is eligible for casting vote.");
           else
               printf("Candidate is not eligible for casting vote.");
           return (0);
```

Microsoft Windows [Version 10.0.22000.434]
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.
D:\Study\Coding and all>cd "d:\Study\Coding and

N Code + ∨ □ ·

D:\Study\Coding and all>cd "d:\Study\Coding and all\" && g++ C.C -o C && "d:\Study\Coding and all\"C

Enter the age: 24

**PROBLEMS** 

OUTPUT

Candidate is eligible for casting vote.

D:\Study\Coding and all>cd "d:\Study\Coding and all\" && g++ C.C -o C && "d:\Study\Coding and all\"C

Enter the age: 18

Candidate is eligible for casting vote.

D:\Study\Coding and all>cd "d:\Study\Coding and all\" && g++ C.C -o C && "d:\Study\Coding and all\"C

Enter the age: 16

Candidate is not eligible for casting vote.

D:\Study\Coding and all>\_

Write a C program to find whether a given year is a leap year or not.

3. Write a C program to read the value of an integer m and display the value of n is 1 when m is larger than 0, 0 when m is 0 and -1 when m is less than 0.

Test Data: -5

**Expected Output:** 

The value of n = -1

#include <stdio.h>

int m, n;

if (m > 0)

n = 1;

else if (m < 0)

n = -1:

n = 0:

return (0);

else

}

scanf("%d", &m);

int main()

C C.C > 1 main()

printf("Enter number: ");

printf("The value of n is: %d", n);



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D:\Study\Coding and all>cd "d:\Study\Coding and all
\" &&

g++ C.C -o C && "d:\Study\Coding and all\"C
D:\Study\Coding and all>cd "d:\Study\Coding and all
\" && g++ C.C -o C && "d:\Study\Coding and all\"C
Enter number: 42

The value of n is: 1

D:\Study\Coding and all>cd "d:\Study\Coding and all \" && g++ C.C -o C && "d:\Study\Coding and all\"C Enter number: 0

The value of n is: 0

D:\Study\Coding and all>cd "d:\Study\Coding and all
\" && g++ C.C -o C && "d:\Study\Coding and all\"C
Enter number: -100
The value of n is: -1
D:\Study\Coding and all>\_

4. Write a program to compute grade of students using if else ladder. The grades are assigned as followed:

- a. Marks Grade
- b. marks<50 F
- c. 50≤marks< 60 C
- d. 60≤marks<70 B
- e. 70≤marks<80 B+
- f. 80≤marks<90 A
- g. 90≤mars≤ 100 A+

```
chat query.py
C.C
       any.py
```

```
CC > @ main()
    #include <stdio.h>
    int main()
       int marks;
       printf("Enter obtained marks: ");
       scanf("%d", &marks);
       if (marks ≥ 90 && marks ≤ 100)
            printf("The assigned grade is: A+");
        else if (marks < 90 && marks ≥ 80)
            printf("The assigned grade is: A");
        else if (marks < 80 && marks ≥ 70)
            printf("The assigned grade is: B+");
        else if (marks < 70 \&\& marks \ge 60)
            printf("The assigned grade is: B");
        else if (marks < 60 && marks ≥ 50)
            printf("The assigned grade is: C");
        else if (marks < 50 && marks ≥ 0)
            printf("The assigned grade is: F");
        else
            printf("Invalid Marks");
        return (0);
```



D III ...

PROBLEMS OUTPUT TERMINAL [>] Code + ∨ 日 前 ^ ×

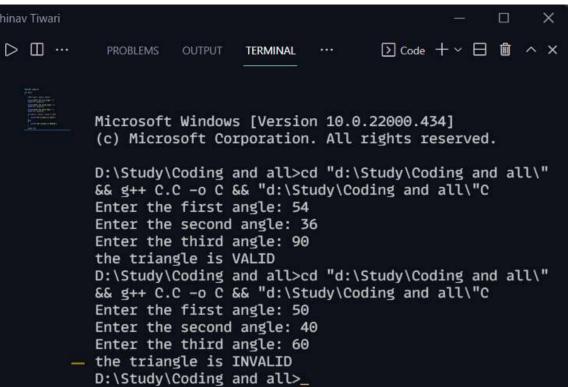
Microsoft Windows [Version 10.0.22000.434] (c) Microsoft Corporation. All rights reserved.

D:\Study\Coding and all>cd "d:\Study\Coding and all\" && g++ C.C -o C && "d:\Studv\Coding and all\"C Enter obtained marks: 98 The assigned grade is: A+ D:\Study\Coding and all>cd "d:\Study\Coding and allD:\Stu dy\Coding and all>cd "d:\Study\Coding and all \" && g++ C.C -o C && "d:\Study\Coding and all\"C Enter obtained marks: 98 The assigned grade is: A+ D:\Study\Coding and all>cd "d:\Study\Coding and all \" && g++ C. C -o C && "d:\Study\Coding and all\"C Enter obtained marks: 82 D:\Study\Coding and all>cd "d:\Study\Coding and all\" && The assigned grade is: A D:\Study\Coding and all>cd "d:\Study\Coding and all\" && g++ C.C -o C && "d:\Study\Coding and all\"C Enter obtained marks: 76 The assigned grade is: B+ D:\Study\Coding and all>cd "d:\Study\Coding and all\" && g++ C.C -o C && "d:\Study\Coding and all\"C Enter obtained marks: 68 The assigned grade is: B D:\Study\Coding and all>cd "d:\Study\Coding and all\" && g++ C.C -o C && "d:\Study\Coding and all\"C Enter obtained marks: 20 The assigned grade is: F D:\Study\Coding and all>\_

5. When the	ree angle of triangle e	nter from key board	, check the triangle is	valid or not.

}

return (0);



6. Using six if statements (equality & relational operators) to compare two numbers input by user. If the condition in any of these if statement is satisfied, the printf statement associated with that if is executed.

Enter two integers, and I will tell you The relationship they satisfy: 3 7

3 is not equal to 7

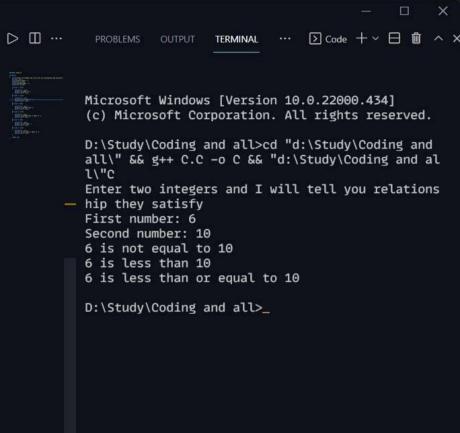
3 is less than 7

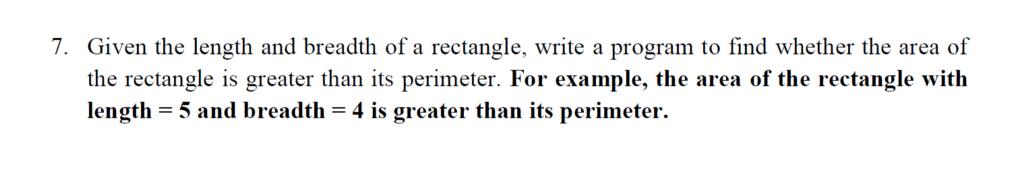
3 is less than or equal to 7

```
File Edit Selection View Go Run Terminal Help
                                                                C.C - Author: Abhinay Tiwari
                                                                                         D Ⅲ …
                                                                                                                                  › Code + ∨ 日 🛍 ^ >
 C C.C
                                                                                                                      TERMINAL
           X 🧖 any.py
                            chat_query.py
                                                                                                      PROBLEMS
  #include <stdio.h>
                                                                                                    Microsoft Windows [Version 10.0.22000.434]
        .nt main()
                                                                                                    (c) Microsoft Corporation. All rights reserved.
           printf("Enter two integers and I will tell you relationship they satisfy\n")
                                                                                                    D:\Study\Coding and all>cd "d:\Study\Coding and
           int num1, num2;
                                                                                                    all\" && g++ C.C -o C && "d:\Study\Coding and al
           printf("First number: ");
                                                                                                    I\"C
           scanf("%d", &num1);
                                                                                                    Enter two integers and I will tell you relations
                                                                                                 hip they satisfy
           printf("Second number: ");
                                                                                                    First number: 6
           scanf("%d", &num2);
                                                                                                    Second number: 10
                                                                                                    6 is not equal to 10
           if (num1 = num2)
                                                                                                    6 is less than 10
                                                                                                    6 is less than or equal to 10
               printf("%d", num1);
               printf(" is equal to ");
                                                                                                    D:\Study\Coding and all>
               printf("%d\n", num2);
           if (num1 \neq num2)
               printf("%d", num1);
               printf(" is not equal to ");
               printf("%d\n", num2);
           if (num1 > num2)
               printf("%d", num1);
               printf(" is greater than ");
               printf("%d\n", num2);
           if (num1 \ge num2)
               printf("%d", num1);
               printf(" is greater than or equal to ");
               printf("%d\n", num2);
```

```
X 💡 any.py
                           chat_query.py
C C.C
C C.C > (2) main()
          }
          if (num1 \ge num2)
              printf("%d", num1);
              printf(" is greater than or equal to ");
              printf("%d\n", num2);
          }
          if (num1 < num2)
              printf("%d", num1);
              printf(" is less than ");
              printf("%d\n", num2);
          if (num1 \leq num2)
              printf("%d", num1);
              printf(" is less than or equal to ");
              printf("%d\n", num2);
          }
          return (0);
```

C.C - Author: Abhinay Tiwari





```
File Edit Selection View Go Run Terminal Help
                                                                C.C - Author: Abhinay Tiwari
 C C.C
            X any.py
                              chat query.py
  C C.C > 10 main()
         #include <stdio.h>
        int main()
             float length, breadth;
             printf("Enter length: ");
             scanf("%f", &length);
             printf("Enter breadth: ");
             scanf("%f", &breadth);
             float area = length * breadth;
             float perimeter = 2 * (length + breadth);
             if (perimeter > area)
                 printf("Perimeter is greater than Area.");
             else if (area > perimeter)
                 printf("Area is greater than Perimeter.");
             else
                 printf("Area is equal to Perimeter.");
             }
             return (0);
```



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D:\Study\Coding and all>cd "d:\Study\Coding and a ll\" && g++ C.C -o C && "d:\Study\Coding and all\ "C

Enter length: 3

Enter breadth: 7
Area is greater than Perimeter.

D:\Study\Coding and all>cd "d:\Study\Coding and a ll\" && g++ C.C -o C && "d:\Study\Coding and all\ "C

Enter length: 1
Enter breadth: 2

Perimeter is greater than Area.

D:\Study\Coding and all>cd "d:\Study\Coding and a ll\" && g++ C.C -o C && "d:\Study\Coding and all\ "C

Enter length: 4
Enter breadth: 4

Area is equal to Perimeter.

D:\Study\Coding and all>

- 8. Write a c program to read 3 numbers from keyboard and check the following conditions and print the output.
  - 1. A is largest number
  - 2. B is largest number
  - 3. C is largest number
  - 4. All numbers are equal
  - 5. A, B are equal and greater than C
  - 6. A, C are equal and greater than B
  - 7. B, C are equal and greater than A

int num1, num2, num3;

scanf("%d", &num1);

scanf("%d", &num2);

scanf("%d", &num3);

if (num1 < num3)

if (num1 > num3)

else

}

printf("Enter first number: ");

printf("Enter second number: ");

printf("Enter third number: ");

if (num1 = num2 && num1 = num3)

printf("All numbers are equal.");

printf(" are equal and less than ");

printf(" are equal and greater than ");

else if (num1 = num2 && num3  $\neq$  num1)

printf("%d", num1);
printf(", %d", num2);

printf("%d", num3);

printf("%d", num1);
printf(", %d", num2);

printf("%d", num3);

else if (num3 = num2 && num3  $\neq$  num1)

chat\_query.py

X 🦣 any.py

#include <stdio.h>

int main()

C C.C

› Code + ∨ 日 🛍 ^ ×

▷ III ····

PROBLEMS

OUTPUT

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**TERMINAL** 

D:\Study\Coding and all>cd "d:\Study\Coding and all\ " && g++ C.C -o C && "d:\Study\Coding and all\"C Enter first number: 4 Enter second number: 3 Enter third number: 8 8 is the largest. D:\Study\Coding and all>cd "d:\Study\Coding and all\ " && g++ C.C -o C && "d:\Study\Coding and all\"C Enter first number: 6 Enter second number: 6 Enter third number: 9 6, 6 are equal and less than 9 D:\Study\Coding and all>cd "d:\Study\Coding and all\ " && g++ C.C -o C && "d:\Study\Coding and all\"C Enter first number: 5 Enter second number: 5 Enter third number: 5 All numbers are equal. D:\Study\Coding and all>\_

else if (num1 > num2 && num1 > num3)

printf("%d", num1);

```
else if (num1 > num2 && num1 > num3)
{
    printf("%d", num1);
    printf(" is the largest.");
}
else if (num2 > num1 && num2 > num3)
{
    printf("%d", num2);
    printf(" is the largest.");
}
else if (num3 > num2 && num3 > num1)
```

printf(" is the largest.");

printf("%d", num3);

}

return (0);

D II ··· PROBLEMS OUTPUT TERMINAL ··· D Code + ∨ □ II ^ X

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D:\Study\Coding and all>cd "d:\Study\Coding and all\ " && g++ C.C -o C && "d:\Study\Coding and all\"C Enter first number: 4 Enter second number: 3 Enter third number: 8 8 is the largest. D:\Study\Coding and all>cd "d:\Study\Coding and all\ " && g++ C.C -o C && "d:\Study\Coding and all\"C Enter first number: 6 Enter second number: 6 Enter third number: 9 6, 6 are equal and less than 9 D:\Study\Coding and all>cd "d:\Study\Coding and all\ " && g++ C.C -o C && "d:\Study\Coding and all\"C Enter first number: 5 Enter second number: 5 Enter third number: 5 All numbers are equal. D:\Study\Coding and all>\_

