C++ Assignments | Fundamentals of Programming -1 | Week2

Take 2 integers input and print the greatest of them

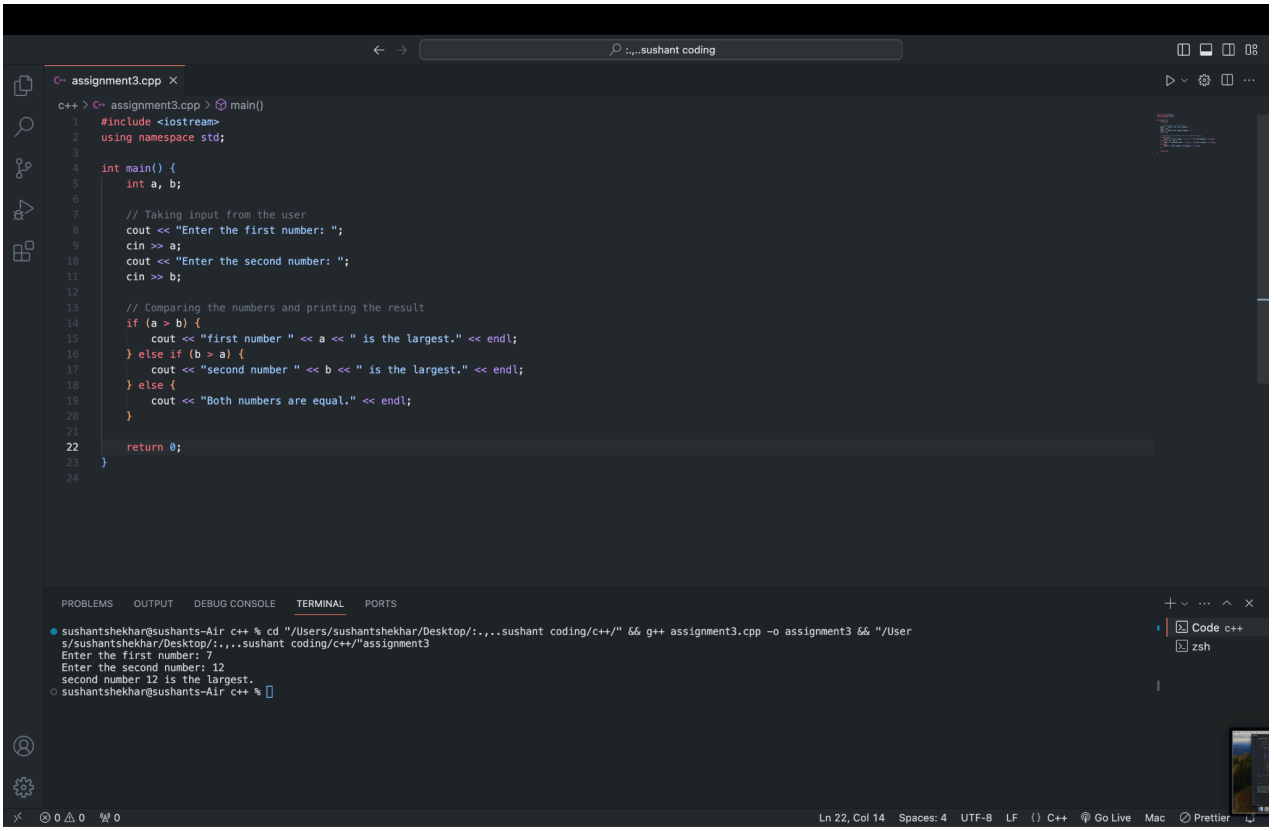
Input 1: a = 5 b =

7

Output 1: second number 7 is the largest.

Input 2: a = 12 b = 1

Output 2 : first number 12 is the 1. largest.



2. Given the radius of the circle, predict whether numerically the area of this circle is larger than the circumference or not.

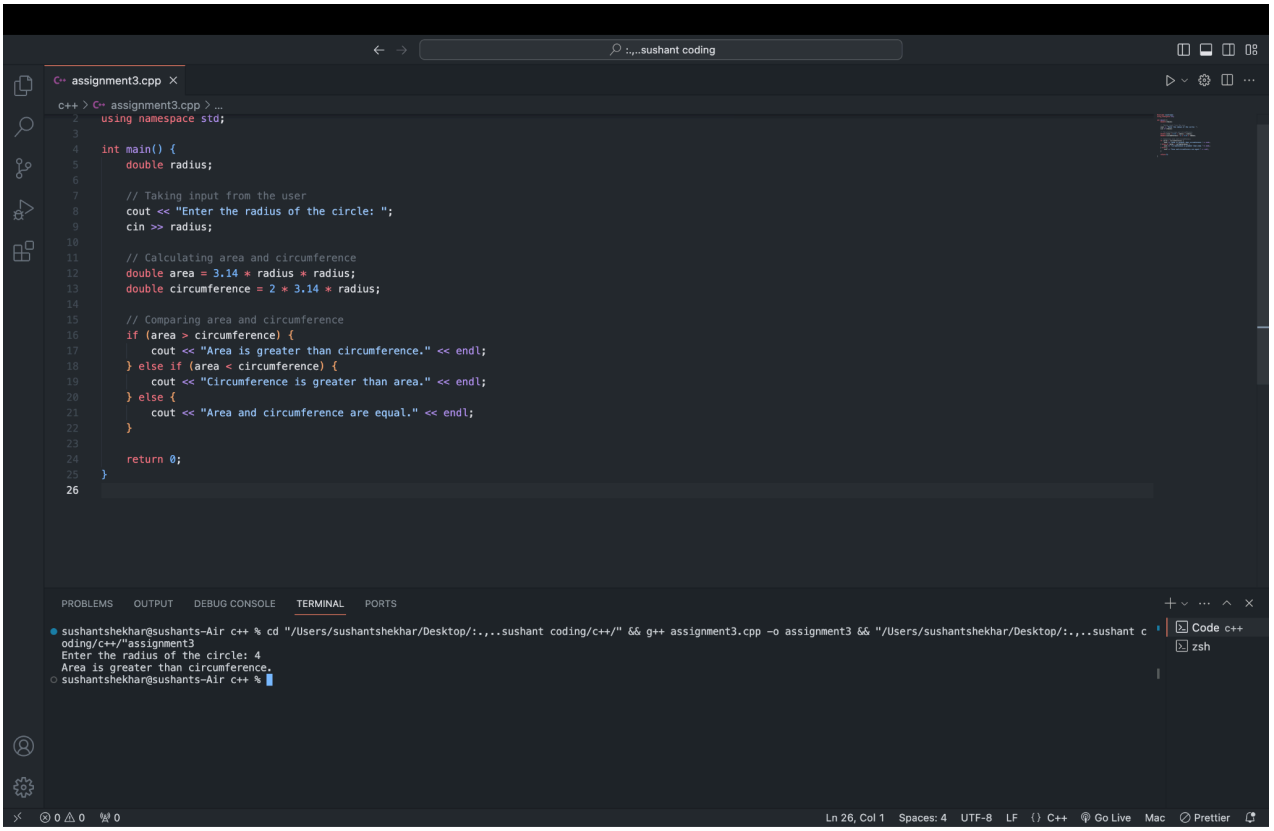
Input 1: radius = 4

Output 1: Area is greater than circumference.

Explanation: area = 3.14 * 4 * 4 = 50.24 unit2

Perimeter = 2 * 3.14 * 4 = 25.12 unit

Therefore area > perimeter.



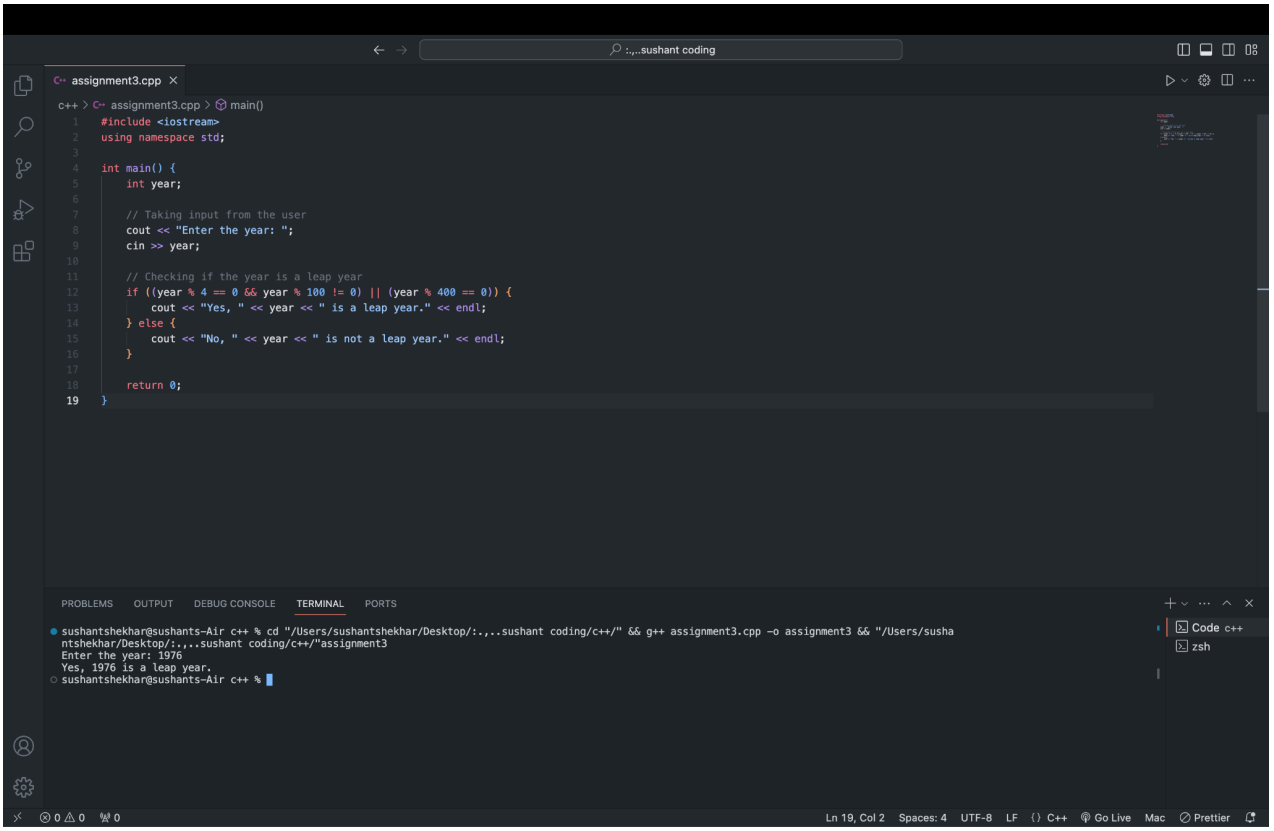
3. Any year is input through the keyboard. Write a program to determine whether the year is a leap year or not. (Considering leap year occurs after every 4 years)

Input 1: 1976

Output: yes

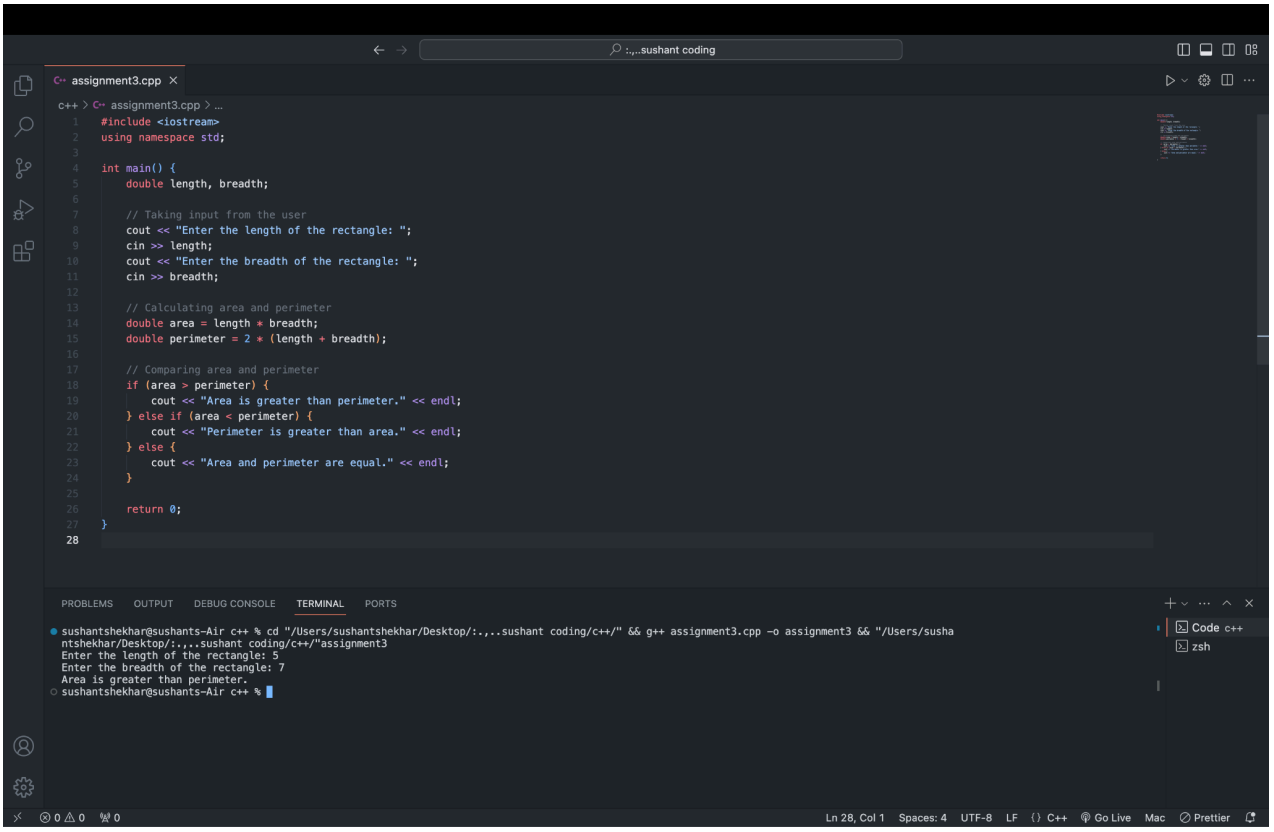
Input 2: 2003

Output: no



4. Given the length and breadth of a rectangle, write a program to find whether numerically the area of the rectangle is greater than its perimeter.

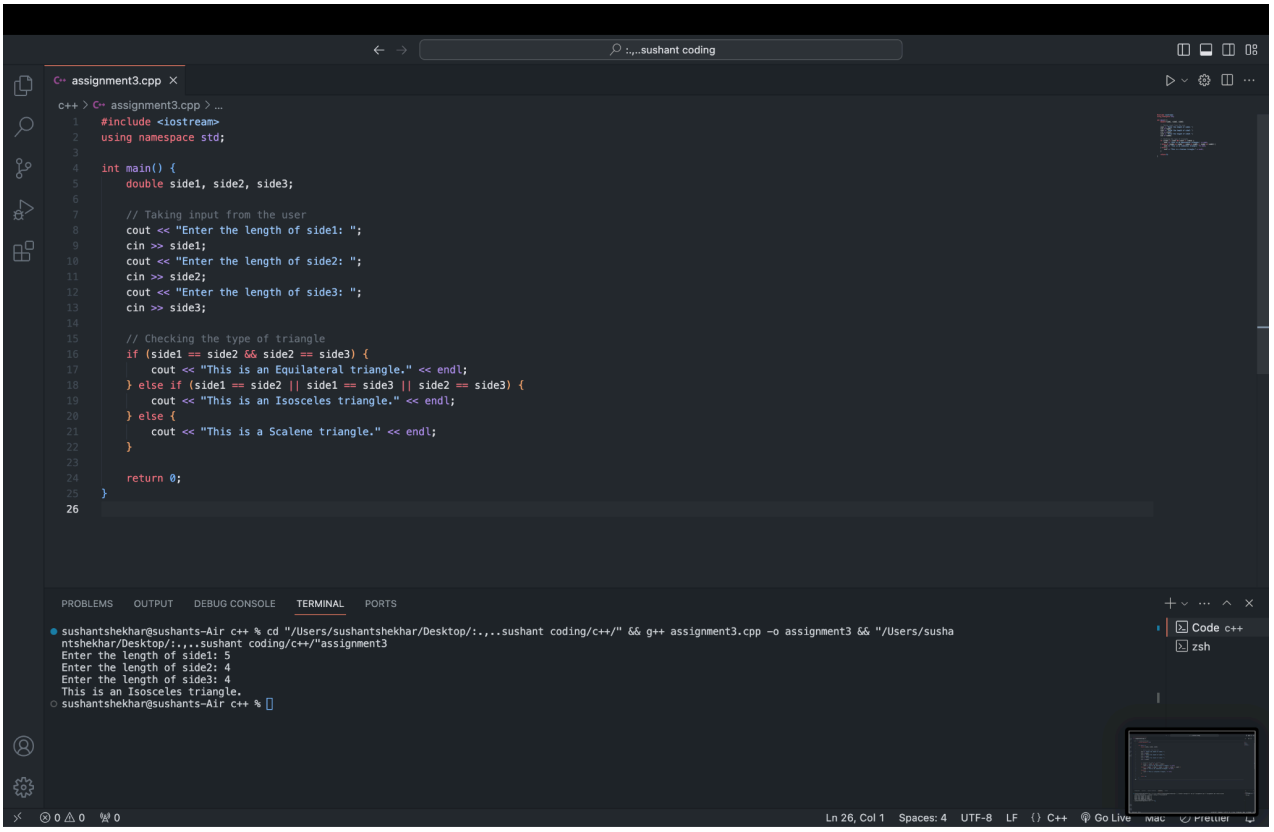
Input 1: length = 5 breadth = 7
Output 1: Area is greater than perimeter.



5. Write a program to input sides of a triangle and check whether a triangle is equilateral, scalene or isosceles triangle.

Input : side1 = 5 side2 = 4 side3 = 4

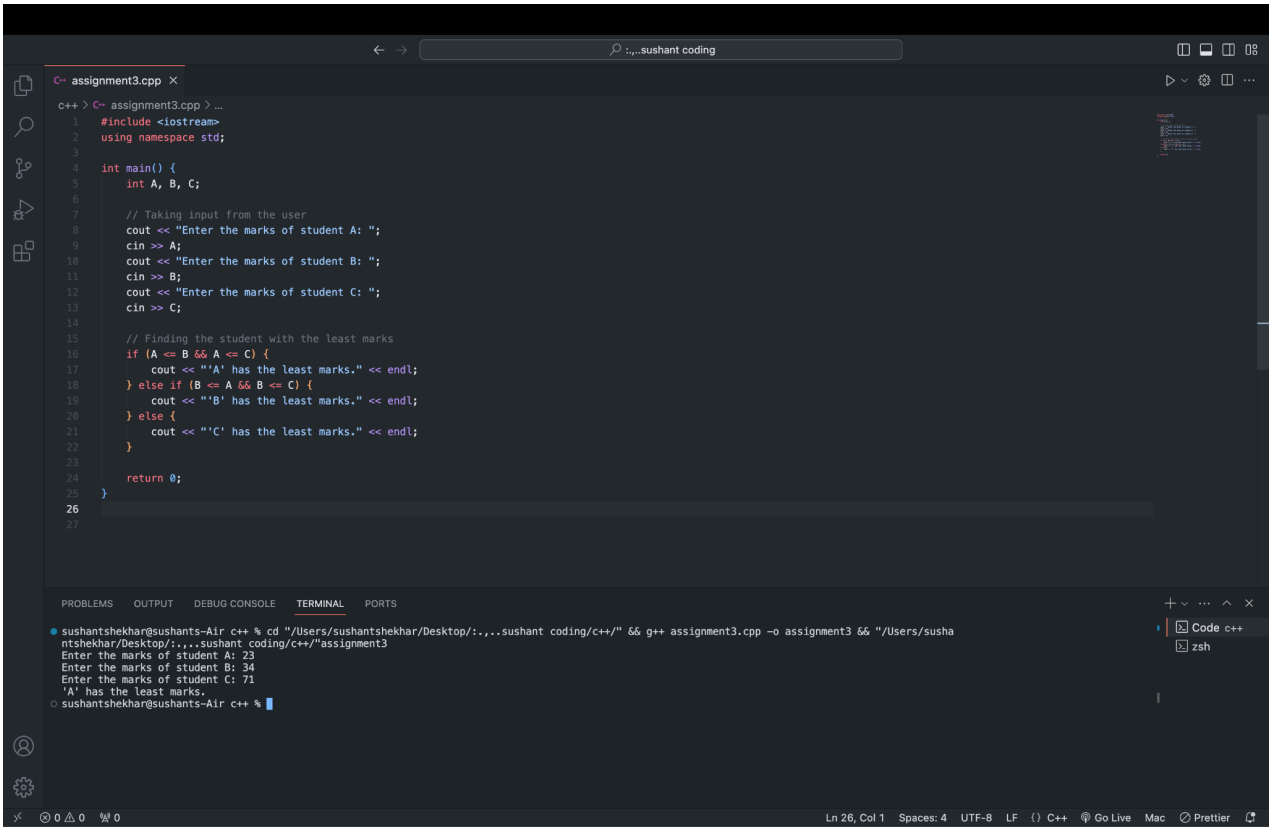
Output: This is an Isosceles triangle.



6. If the marks of A, B and C are input through the keyboard, write a program to determine the student scoring the least marks.

Input 1: A = 23 , B = 34 , C = 71

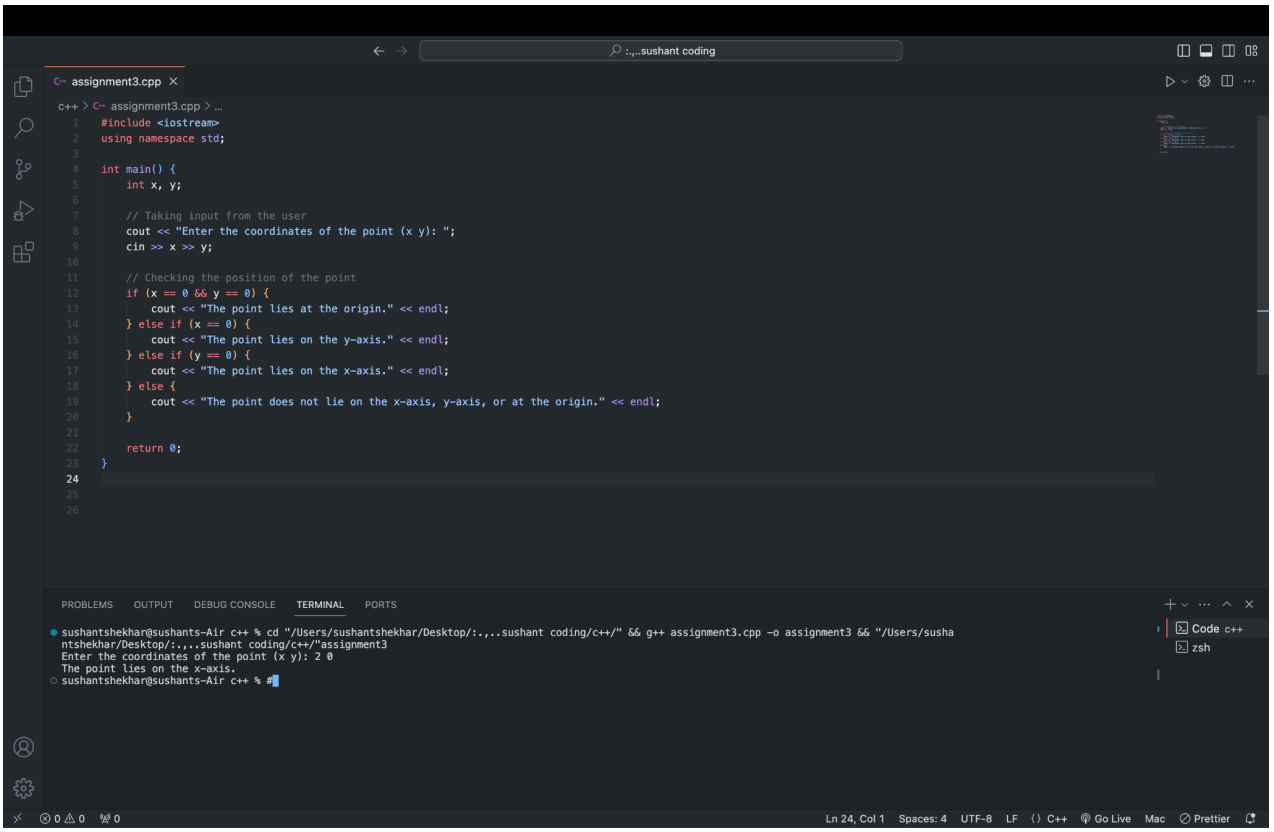
Output : ‘A’ has the least marks.



7. Given a point (x, y), write a program to find out if it lies on the x-axis, y-axis or at the origin, viz. (0, 0).

Input 1: 2 0

Output 1: the point lies on the x - axis.

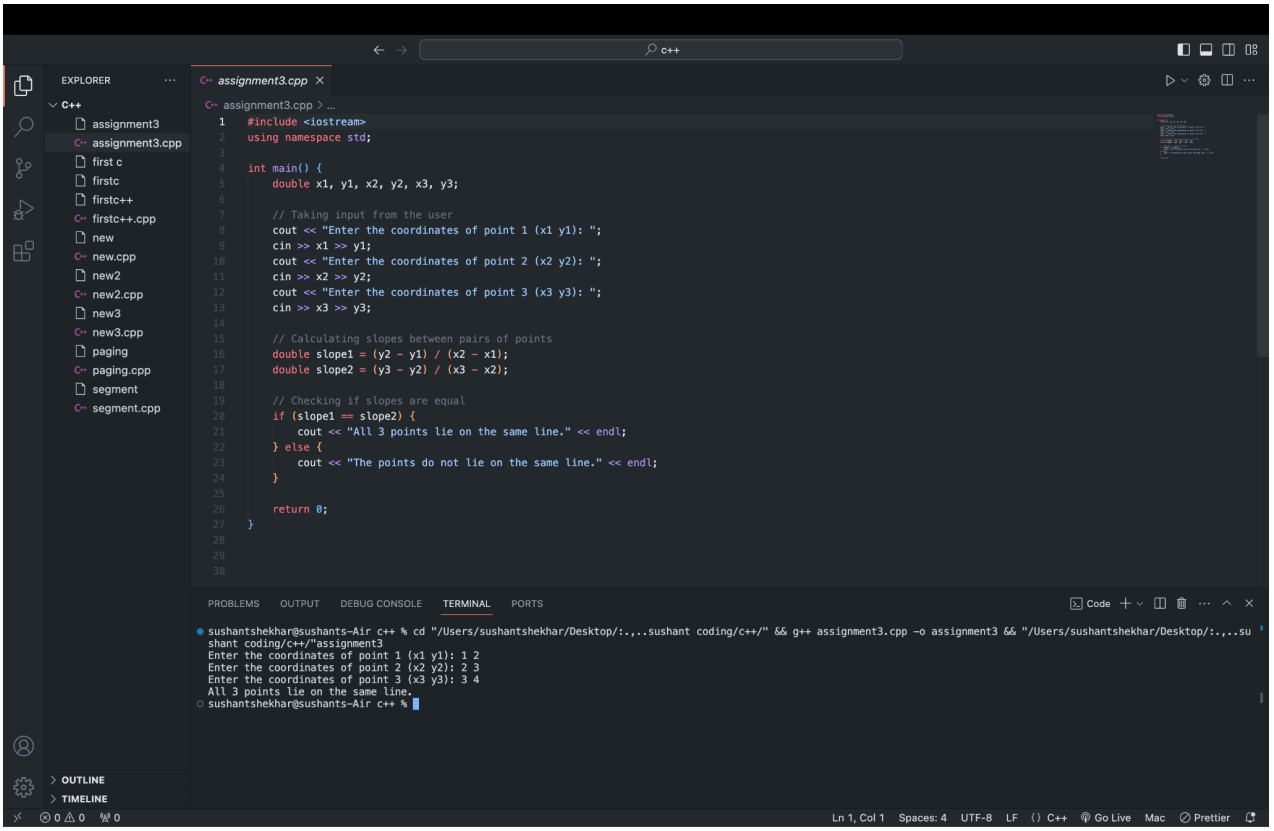


8. Given three points (x1, y1), (x2, y2) and

(x3, y3), write a program to check if all the three points fall on one straight line.

Input 1: x1 = 1 , y1 = 2 , x2 = 2 , y2 = 3 , x3 = 3 , y3 = 4

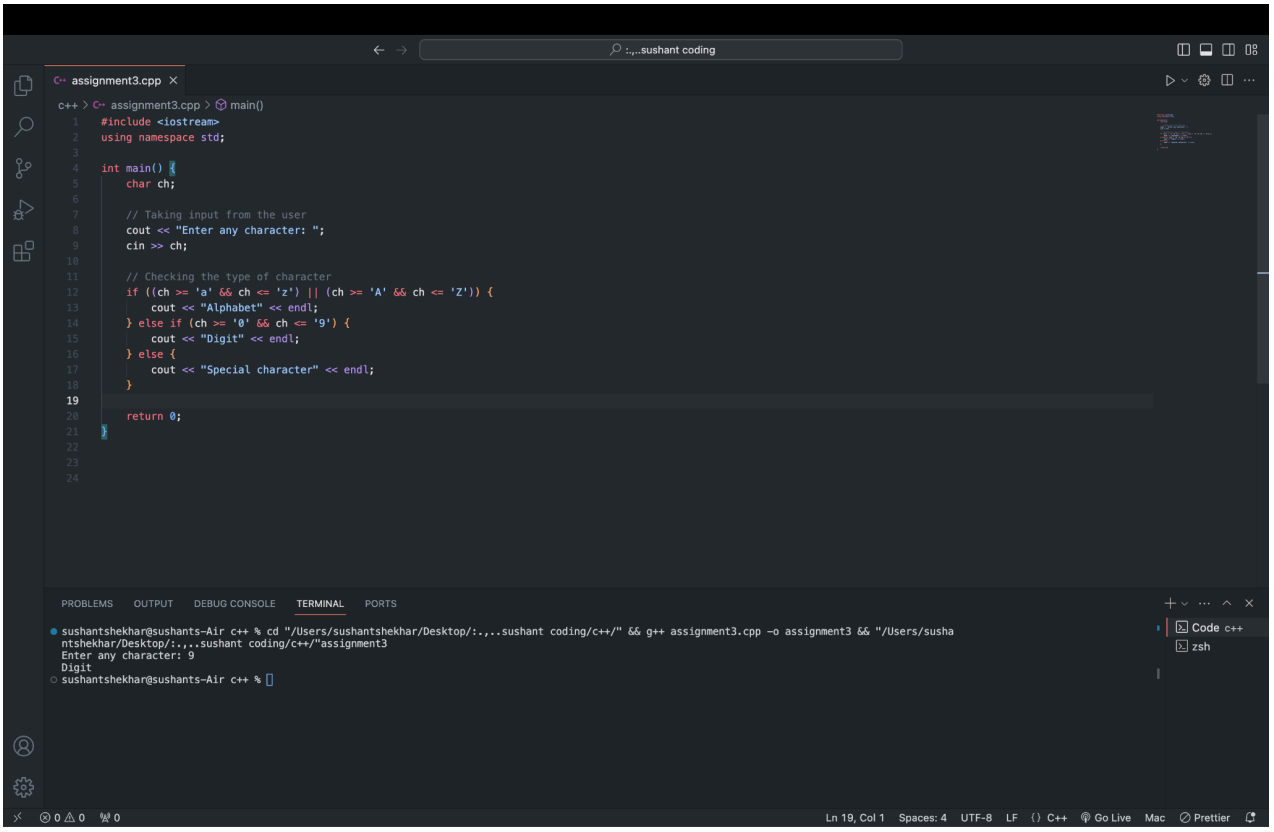
Output 1: All 3 points lie on the same line.



Write a C++ program to input any character and check whether it is the alphabet, digit or special character.

Input 1: ch = ‘9’

Output 1: digit



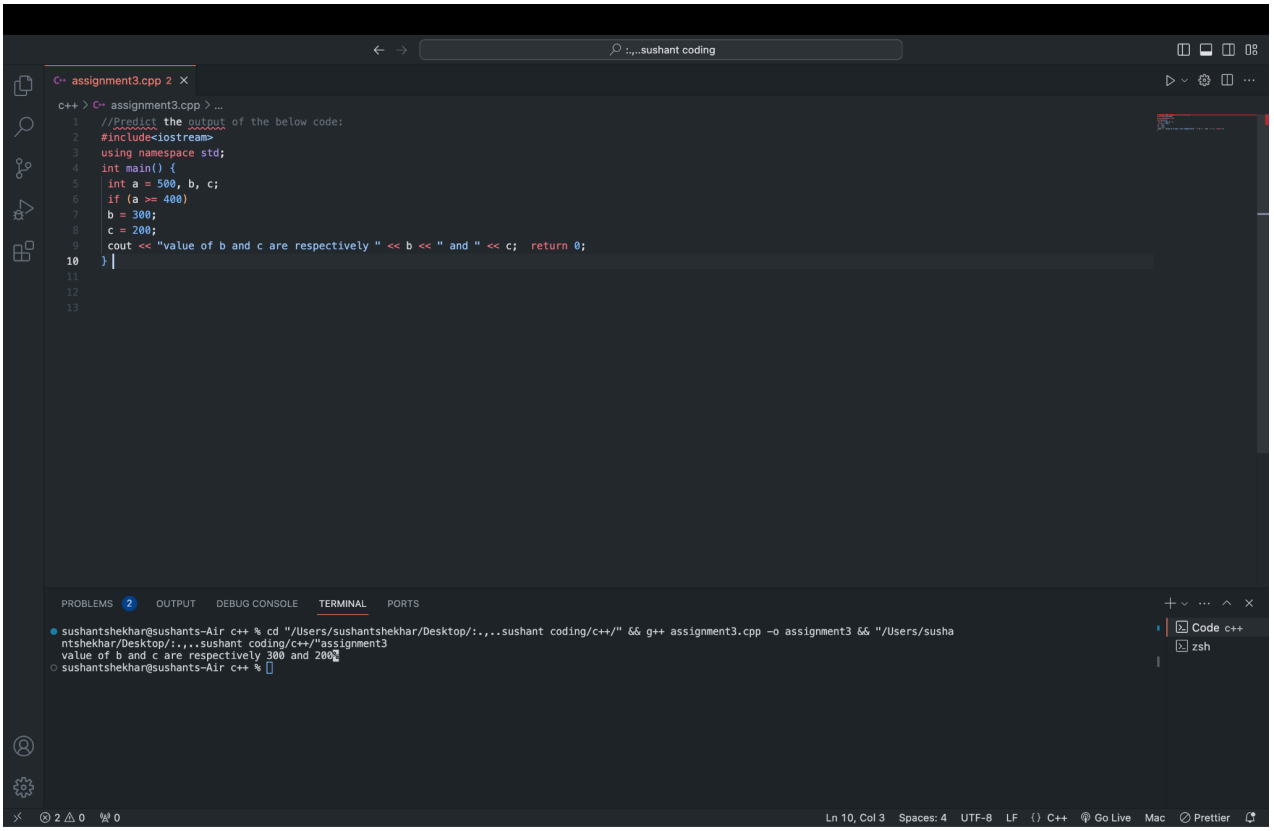
10. Predict the output of the below code:

```
#include<iostream>

using namespace std;

int main() {
 int a = 500, b, c;
 if (a >= 400)
 b = 300;
 c = 200;
 cout << "value of b and c are respectively " << b << " and " << c;  return 0;
}
```

output: value of b and c are respectively 300 and 200


:,,..sushant coding
assignment3.cpp 2
c++ > assignment3.cpp > ...
//Predict the output of the below code:
#include<iostream>
using namespace std;
int main() {
int a = 500, b, c;
if (a >= 400)
b = 300;
c = 200;
cout << "value of b and c are respectively " << b << " and " << c; return 0;
}
PROBLEMS 2
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
sushantshekhar@sushants-Air c++ % cd "/Users/sushantshekhar/Desktop/:,,..sushant coding/c++/" && g++ assignment3.cpp -o assignment3 && "/Users/susha
ntshekhar/Desktop/:,,..sushant coding/c++/"assignment3
value of b and c are respectively 300 and 200
sushantshekhar@sushants-Air c++ %
Code c++
zsh
Ln 10, Col 3
Spaces: 4
UTF-8
LF
C++
Go Live
Mac
Prettier