



main.py

Output



```
1 # Grade Calculator using Nested Conditions
2
3 marks = float(input("Enter your marks (0 -
4      100): "))
5
6 if marks >= 0 and marks <= 100:
7     if marks >= 90:
8         grade = "A+"
9     else:
10        if marks >= 80:
11            grade = "A"
12        else:
13            if marks >= 70:
14                grade = "B"
15            else:
16                if marks >= 60:
17                    grade = "C"
18                else:
19                    if marks >= 50:
20                        grade = "D"
21                    else:
22                        grade = "Fail"
23
24 else:
25     print("Invalid marks! Please enter marks
26          between 0 and 100.")
```

Run

X V Online Python Compiler (I...
programiz.com

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actually understand

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main.py Output

Enter your marks (0 - 100): 85
Your Grade is: A

==== Code Execution Successful ===

The screenshot shows a dark-themed web-based Python compiler. At the top, there's a navigation bar with icons for closing, minimizing, and maximizing the window, followed by the text "Online Python Compiler (I..." and the URL "programiz.com". Below this is a promotional banner with the text "Stop copy pasting code you don't actually understand" and a blue button labeled "Become a PRO". The main interface features the "Programiz" logo and "Python Online Compiler" text. On the left, there's a sidebar with a menu icon and a "Programiz PRO" button. The central area has tabs for "main.py" and "Output", with the "Output" tab currently selected. The output window displays the user input "Enter your marks (0 - 100): 85" and the resulting output "Your Grade is: A". At the bottom of the output window, it says "==== Code Execution Successful ===". The overall theme is dark with light-colored text and buttons.

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main.py Output

```
1 # Take input from the user
2 a = float(input("Enter first side: "))
3 b = float(input("Enter second side: "))
4 c = float(input("Enter third side: "))
5
6 # Check if it is a valid triangle
7 if a + b > c and a + c > b and b + c > a:
8     if a == b == c:
9         print("Equilateral Triangle")
10    elif a == b or b == c or a == c:
11        print("Isosceles Triangle")
12    else:
13        print("Scalene Triangle")
14 else:
15     print("Invalid Triangle")
```

Run

9:38 AM

0.34 4G

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main.py Output

Enter first side: 2

Enter second side: 2

Enter third side: 1

Isosceles Triangle

==== Code Execution Successful ===

This screenshot shows a mobile application interface for the Programiz Python Online Compiler. At the top, there's a navigation bar with icons for back, forward, search, and more. The title 'Online Python Compiler (I...' and the URL 'programiz.com' are displayed. A promotional banner at the top right encourages users to 'Become a PRO'. Below the banner, the Programiz logo and 'Python Online Compiler' text are visible. The main area contains a terminal-like interface with the following text:
Enter first side: 2
Enter second side: 2
Enter third side: 1
Isosceles Triangle
==== Code Execution Successful ====
The interface includes tabs for 'main.py' and 'Output', and various control buttons like a sun icon, a share icon, and a blue arrow icon.

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main.py Output

```
1 a = float(input("Enter first number: "))
2 b = float(input("Enter second number: "))
3
4 # Arithmetic operations
5 print("Addition:", a + b)
6 print("Subtraction:", a - b)
7 print("Multiplication:", a * b)
8
9 # To avoid division by zero
10 if b != 0:
11     print("Division:", a / b)
12     print("Modulus:", a % b)
13 else:
14     print("Division and Modulus not possible
           (division by zero)")
15
16 print("Exponentiation:", a ** b)
17 print("Floor Division:", a // b if b != 0
           else "Not possible")
```

Run

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main.py Output   

```
Enter first number: 1
Enter second number: 3
Addition: 4.0
Subtraction: -2.0
Multiplication: 3.0
Division: 0.3333333333333333
Modulus: 1.0
Exponentiation: 1.0
Floor Division: 0.0

==== Code Execution Successful ===
```

12:45

Online Python Compiler (I...
programiz.com

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main.py Output

```
1 a = bool(int(input("Enter first value (0 or 1): ")))  
2 b = bool(int(input("Enter second value (0 or 1): ")))  
3  
4 print("\nLogical AND (a and b):", a and b)  
5 print("Logical OR (a or b):", a or b)  
6 print("Logical NOT of a (not a):", not a)  
7 print("Logical NOT of b (not b):", not b)
```

Run

7

The screenshot shows the Online Python Compiler interface from programiz.com. At the top, there are window control buttons (X, V), the title "Online Python Compiler (I... programiz.com)", and icons for sharing, bookmarking, and more. A promotional banner says "Stop copy pasting code you don't actually understand" and "Become a PRO". The main area has a dark theme with a navigation bar on the left labeled "Programiz Python Online Compiler". Below the bar, tabs for "main.py" and "Output" are visible, along with icons for brightness, sharing, and a play button. The "Output" tab is selected, displaying the following text:

```
Enter first value (0 or 1): 1
Enter second value (0 or 1): 2

Logical AND (a and b): True
Logical OR (a or b): True
Logical NOT of a (not a): False
Logical NOT of b (not b): False

==== Code Execution Successful ====
```

11:34 4G 78%

Online Python Compiler (I... programiz.com

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main.py Output

```
1 a=1
2 b=10.5
3 c =1+5j
4 print(a)
5 print(type(a))
6 print(type(b))
7 print(type(c))
```

Run

9

The screenshot shows a mobile application interface for an online Python compiler. At the top, there's a header bar with the text "Online Python Compiler (I..." and "programiz.com". Below the header, a banner reads "Stop copy pasting code you don't actually understand" with a "Become a PRO" button. The main interface features a dark theme with a navigation bar on the left containing three horizontal lines and the "Programiz" logo, followed by "Python Online Compiler". On the right of the navigation bar is a "Programiz PRO" button. Below the navigation is a toolbar with tabs for "main.py" and "Output", and icons for brightness, sharing, and a play button. The main content area displays the output of the executed Python code:

```
1
<class 'int'>
<class 'float'>
<class 'complex'>

==== Code Execution Successful ===
```

11:33 4G 78%

X V Online Python Compiler (I... programiz.com

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main.py Output

1 a= b= c = 1
2 print(a)
3 print(type(a))

Run

This screenshot shows a mobile application interface for an online Python compiler. At the top, there's a status bar with the time '11:33', signal strength, battery level at 78%, and network connectivity. Below the status bar is the title 'Online Python Compiler (I...' followed by 'programiz.com'. A banner at the top says 'Stop copy pasting code you don't actually understand' with a 'Become a PRO' button. The main interface features the 'Programiz' logo and 'Python Online Compiler' text. It includes tabs for 'main.py' and 'Output', and icons for brightness, share, and a large blue arrow. The code editor contains three lines of Python code: 'a= b= c = 1', 'print(a)', and 'print(type(a))'. At the bottom right is a large blue 'Run' button.

