





main.py

Output






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

Run





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main.py



Output








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

=== Code Execution Successful ===





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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

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Output






Enter first side: 2

Enter second side: 2

Enter third side: 1


Isosceles Triangle

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main.pyOutput



```
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")
```

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main.pyOutput

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 ===

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main.py

Output






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```
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)
```

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main.pyOutput

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 ===

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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))
```

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main.py

Output

1

<class 'int'>
<class 'float'>
<class 'complex'>

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main.py

Output

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

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main.py

Output

1

<class 'int'>

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