

Develop a Python program that safely performs division between two numbers provided by the user. Handle exceptions like division by zero and non-numeric inputs.

**Input Format:** Two lines of input, each containing a number.

**Output Format:** Print the result of the division or an error message if an exception occurs.

For example:

Input	Result
10 2	5.0
10 0	Error: Cannot divide or modulo by zero.
ten 5	Error: Non-numeric input provided.

**Answer:** (penalty regime: 0 %)

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Falling back to raw text area.

```
try:
    n1=float(input())
    n2=float(input())
    b=n1/n2
    print(b)
except ZeroDivisionError:
    print("Error: Cannot divide or modulo by zero.")
except ValueError:
    print("Error: Non-numeric input provided.")
```

	Input	Expected	Got	
✓	10 2	5.0	5.0	✓
✓	10 0	Error: Cannot divide or modulo by zero.	Error: Cannot divide or modulo by zero.	✓
✓	ten 5	Error: Non-numeric input provided.	Error: Non-numeric input provided.	✓

Passed all tests! ✓

Write a Python program that asks the user for their age and prints a message based on the age. Ensure that the program handles cases where the input is not a valid integer.

**Input Format:** A single line input representing the user's age.

**Output Format:** Print a message based on the age or an error if the input is invalid.

For example:

Input	Result
twenty	Error: Please enter a valid age.
25	You are 25 years old.
-1	Error: Please enter a valid age.

Answer: (penalty regime: 0 %)

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```
try:
    age = int(input())

    if age>=0:
        print("You are", age, "years old.")
    else:
        print("Error: Please enter a valid age.")
except:
    print("Error: Please enter a valid age.")
```

	Input	Expected	Got	
✓	twenty	Error: Please enter a valid age.	Error: Please enter a valid age.	✓
✓	25	You are 25 years old.	You are 25 years old.	✓
✓	-1	Error: Please enter a valid age.	Error: Please enter a valid age.	✓
✓	150	You are 150 years old.	You are 150 years old.	✓
✓		Error: Please enter a valid age.	Error: Please enter a valid age.	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Problem Description:

Develop a Python program that safely calculates the square root of a number provided by the user. Handle exceptions for negative inputs and non-numeric inputs.

Input Format:

User inputs a number.

Output Format:

Print the square root of the number or an error message if an exception occurs.

For example:

Input	Result
16	The square root of 16.0 is 4.00
-4	Error: Cannot calculate the square root of a negative number.
roc	Error: could not convert string to float

Answer: (penalty regime: 0 %)

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```
try:
    a=float(input())
    if a>=0:
        b=a**0.5
        c="%.2f"%b
        print("The square root of",a,"is",c)
    else:
        print("Error: Cannot calculate the square root of a negative number.")
except:
    print("Error: could not convert string to float")
```

	Input	Expected	Got	
✓	16	The square root of 16.0 is 4.00	The square root of 16.0 is 4.00	✓
✓	0	The square root of 0.0 is 0.00	The square root of 0.0 is 0.00	✓
✓	-4	Error: Cannot calculate the square root of a negative number.	Error: Cannot calculate the square root of a negative number.	✓

Passed all tests! ✓

Problem Description:

Write a Python script that asks the user to enter a number within a specified range (e.g., 1 to 100). Handle exceptions for invalid inputs and out-of-range numbers.

Input Format:

User inputs a number.

Output Format:

Confirm the input or print an error message if it's invalid or out of range.

For example:

Input	Result
1	Valid input.
101	Error: Number out of allowed range
rec	Error: invalid literal for int()

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

```
try:
    n = int(input())
    if(n<1 or n>100):
        print("Error: Number out of allowed range")
    else:
        print("Valid input.")
except ValueError:
    print("Error: invalid literal for int()")
```

	Input	Expected	Got	
✓	1	Valid input.	Valid input.	✓
✓	100	Valid input.	Valid input.	✓
✓	101	Error: Number out of allowed range	Error: Number out of allowed range	✓

Passed all tests! ✓

Problem Description:  
Write a Python program that asks the user for their age and prints a message based on the age. Ensure that the program handles cases where the input is not a valid integer.

Input Format:  
A single line input representing the user's age.

Output Format:  
Print a message based on the age or an error if the input is invalid.  
For example:

Input	Result
25	You are 25 years old.
rec	Error: Please enter a valid age.
-5	Error: Please enter a valid age.

Answer: (penalty regime: 0 %)  
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Falling back to raw text area.

```
try:
    age = int(input())

    if age > 0:
        print(f"You are {age} years old.")

    else:
        print("Error: Please enter a valid age.")

except:
    print("Error: Please enter a valid age.")
```

	Input	Expected	Got	
✓	25	You are 25 years old.	You are 25 years old.	✓
✓	rec	Error: Please enter a valid age.	Error: Please enter a valid age.	✓
✓	!@#	Error: Please enter a valid age.	Error: Please enter a valid age.	✓

Passed all tests! ✓