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Started on	Saturday, 1 June 2024, 1:07 PM
State	Finished
Completed on	Sunday, 2 June 2024, 2:10 PM
Time taken	1 day 1 hour
Marks	5.00/5.00
Grade	50.00 out of 50.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

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 %)

```
1 try:
2     a=input()
3     if int(a)>=0:
4         print("You are",a,"years old.")
5     else:
6         print("Error: Please enter a valid age.")
7 except:
8     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! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00

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 %)

```
1 try:
2     a=input()
3     if int(a)>=0:
4         print("You are",a,"years old.")
5     else:
6         print("Error: Please enter a valid age.")
7 except:
8     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.

Question 3

Correct

Mark 1.00 out of 1.00

Write a Python program that performs division and modulo operations on two numbers provided by the user. Handle division by zero and non-numeric inputs.

Input Format:

Two lines of input, each containing a number.

Output Format:

Print the result of division and modulo operation, or an error message if an exception occurs.

For example:

Input	Result
10 2	Division result: 5.0 Modulo result: 0
7 3	Division result: 2.3333333333333335 Modulo result: 1
8 0	Error: Cannot divide or modulo by zero.

Answer: (penalty regime: 0 %)

```
1 try:
2     a=input()
3     b=input()
4     c=int(a)/int(b)
5     d=int(a)%int(b)
6 except ZeroDivisionError:
7     print("Error: Cannot divide or modulo by zero.")
8 except:
9     print("Error: Non-numeric input provided.")
10 else:
11     print("Division result:",c)
12     print("Modulo result:",d)
13
```

	Input	Expected	Got	
✓	10 2	Division result: 5.0 Modulo result: 0	Division result: 5.0 Modulo result: 0	✓
✓	7 3	Division result: 2.3333333333333335 Modulo result: 1	Division result: 2.3333333333333335 Modulo result: 1	✓
✓	8 0	Error: Cannot divide or modulo by zero.	Error: Cannot divide or modulo by zero.	✓
✓	abc 5	Error: Non-numeric input provided.	Error: Non-numeric input provided.	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of 1.00

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 %)

```

1 try:
2     a=input()
3     if(int(a)>0 and int(a)<101):
4         print("Valid input.")
5     else:
6         print("Error: Number out of allowed range")
7 except:
8     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! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 5

Correct

Mark 1.00 out of 1.00

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 %)

```
1 try:
2     a=input()
3     b=input()
4     c=float(a)/float(b)
5 except ZeroDivisionError:
6     print("Error: Cannot divide or modulo by zero.")
7 except:
8     print("Error: Non-numeric input provided.")
9 else:
10    print(c)
```

	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! ✓

Correct

Marks for this submission: 1.00/1.00.

◀ Week11_MCQ

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