main.py

43gnbpy58

AI NEW PYTHON RUN

```python
def is_palindrome(s):
    return s == s[::-1]
string = "madam"
print(f"Is '{string}' a palindrome? {is_palindrome(string)}")
```

STDIN

Input for the program (Optional)

Output:

```
Is 'madam' a palindrome? True
```

Sports headline 'Winger' Harry...

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main.py

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AI NEW PYTHON

```python
from collections import Counter
sentence = "hello world hello again"
word_counts = Counter(sentence.split())
print(word_counts)
```

STDIN

Input for the program (Optional)

Output:

```
Counter({'hello': 2, 'world': 1, 'again': 1})
```

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main.py

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AI NEW PYTHON

```python
text = """Hello world Welcome to Python Enjoy coding"""
num_chars = len(text)
num_words = len(text.split())
num_lines = len(text.splitlines())
print("Characters:", num_chars)
print("Words:", num_words)
print("Lines:", num_lines)
```

STDIN

Input for the program (Optional)

Output:

```
Characters: 42
Words: 7
Lines: 1
```

main.py

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AI NEW PYTHON

```python
def max_words(sentences):
    return max(len(sentence.split()) for sentence in sentences)
sentences1 = ["alice and bob love apple", "i think so too", "this is great thanks very much"]
print(max_words(sentences1))
```

STDIN

Input for the program (Optional)

Output:

```
6
```

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```python
def is_integer_palindrome(x):
    if isinstance(x, int):
        return str(x) == str(x)[::-1]
    return False
print(is_integer_palindrome(121))
print(is_integer_palindrome(-121))
print(is_integer_palindrome(10))
print(is_integer_palindrome("abc"))
print(is_integer_palindrome(0))
```

STDIN

Input for the program (Optional)

Output:

```
True
False
False
False
True
```

43gnbpy58

```python
def skip_numbers(M, N, K):
    if K == 0:
        print("Step (K) cannot be zero.")
        return
    step = K
    if M > N and K > 0:
        step = -K
    for i in range(M, N + (1 if step > 0 else -1), step):
        print(i, end=", ")
skip_numbers(50, 100, 8)
```

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STDIN

Input for the program (Optional)

Output:

```
50, 58, 66, 74, 82, 90, 98,
```

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main.py

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AI NEW PYTHON

```python
def is_leap_year(year):
    if not isinstance(year, int) or year <= 0:
        return "Invalid year"
    if year % 400 == 0 or (year % 4 == 0 and year % 100 != 0):
        return "Leap Year"
    else:
        return "Non-Leap Year"
print(is_leap_year(1947))
print(is_leap_year(1936))
print(is_leap_year(0))
print(is_leap_year(2000))
print(is_leap_year(-1428))
```

STDIN

Input for the program (Optional)

Output:

```
Non-Leap Year
Leap Year
Invalid year
Leap Year
Invalid year
```

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main.py

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AI NEW

```python
def print_pattern(rows):
    if not isinstance(rows, int) or rows <= 0:
        print("Invalid number of rows")
        return
    for i in range(1, rows + 1):
        for j in range(i, 0, -1):
            print(j, end="")
        print()
print_pattern(5)
```

STDIN

Input for the program (Optional)

Output:

```
1
21
321
4321
54321
```