

6. Using Arithmetic Operations 2.2.1

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```
1 days = int(input())
2
3 years = days // 365
4 remaining_days = days % 365
5 weeks = remaining_days // 7
6 days_left = remaining_days % 7
7
8 print(years)
9 print(weeks)
10 print(days_left)
```

Python

Input

860

Output

2
18
4

Activity

Using Arithmetic Operators

Complete the Python code that takes user input as days and converts the days into years, weeks, and days, and then prints them out.

Note: Ignore leap years.

Sample Input:

860

Sample Output:

Years: 2
Weeks: 18
Days: 4

Instructions:

- Write the code in the editable section.
- Click the **Run Code** button to execute the

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7. Performing String Slicing Task 2.3.1

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```
1 text1 = "cats hate water"
2 print(text1[3])
3
4 numbers = [8, 9, 10]
5 print(numbers[1])
6
7 sentence = "He doesn't teach math"
8 print(sentence[17:21])
9
10 text2 = "Testing 1, 2, 3."
11 print(text2[8:15])
12
13 sentence2 = "A man, a plan, a canal: Panama"
14 print(sentence2[0:22])
```

Python

Input

Separate input using the 'Enter' key

Output

s
9
math
1, 2, 3
A man, a plan, a canal

Activity

BEGINNER

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Performing String Slicing Tasks

Write the Python code to perform the following string slicing tasks:

- Print letter **s** from the string **Cats hate water**.
- Print integer **9** from the list **[8, 9, 10]**.
- Print the word **math** from the sentence **He doesn't teach math**.
- Print **1, 2, 3** from the statement **Testing 1, 2, 3**.
- Print **A man, a plan, a canal** from the sentence **A man, a plan, a canal: Panama**.

Output:

s
9

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8. Working with Strings 2.3.2

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```
1 st = "bougainvillea"
2 m = int(input())
3 start = st[:len(st) - m]
4 end = st[len(st) - m:]
5 print(start + end.upper())
```

Input
3

Output
bougainvilleA

Activity Explanation

Working with Strings

Complete the Python code that converts the last **n** letters of a given string to the uppercase. In this, the string is converted into an integer, specifying the last **n** letters to convert as the input from a user where **n** denotes the number of elements.

Sample Input:
3

Sample Output:
bougainvilleA

Instructions:

- Write the code in the editable section.
- Click the **Run Code** button to execute the code.

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9. 2.3.3 Manipulating Strings Using the strip Method

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```
1 sentence = input()
2 query = input()
3
4 sentence = sentence.lower().strip()
5 query = query.lower().strip()
6
7 num_occurrences = sentence.count(query)
8 print(num_occurrences)
```

Input
I am not afraid to die. I am not afraid to live. I am not afraid to fail. I am not afraid to succeed. afraid

Output
4

Activity Explanation

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Manipulating Strings Using the strip Method

Complete the Python code that counts and displays the number of occurrences of a recurrent word, such as, **afraid** in the given sample input.

Note: Assume that the word will not occur as a substring in other words and a comma is also not used in a sentence.

Sample Input:
I am not afraid to die. I am not afraid to live. I am not afraid to fail. I am not afraid to succeed. afraid

Sample Output:
4

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10. 2.4.1 Working with lists

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```
1 array = [55, 12, 37, 831, 57, 16, 93, 44, 22]
2 n = int(input())
3 print(array[0: n])
```

Input

1

Output

[55]

Activity Explanation

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Working with Lists

Complete the Python code that fetches the element from the array where **n** denotes the number of element.

Sample Input:

1

Sample Output:

[55]

Instructions:

- Write the code in the editable section.
- Click the **Run Code** button to execute the code.

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11. 2.5.1 Using Boolean Operators

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```
1 n = 124
2 if n % 2 == 0:
3     print("Even")
4 n = 123
5 if n % 2 == 1:
6     print("Odd")
7
```

Input

Separate input using the 'Enter' key

Output

Even
Odd

Activity Explanation

[Watch me first to get started.](#)

Using Boolean Operators

Write the Python code to perform the following tasks using Boolean operators:

- Define an even number **124** and print **Even**.
- Define an odd number **123** and then print **Odd**.

Output:

Even
Odd

Instructions:

- Write the code in the editable section.
- Click the **Run Code** button to execute the code.

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