1. Write a Python program to find the second smallest number in a list. #input #second_smallest([1, 2, -8, -2, 0]) #output #-2

In [1]:
```
def second_smallest(numbers):
    unique_numbers = set(numbers)
    sorted_numbers = sorted(unique_numbers)
    if len(sorted_numbers) < 2:
        return None
    return sorted_numbers[1]

# Test case
numbers_list = [1, 2, -8, -2, 0]
result = second_smallest(numbers_list)
print(result)
```

```
-2
```

1. Write a Python program to change a given string to a new string where the first and last chars have been exchanged

In [2]:
```
def exchange_chars(string):
    if len(string) < 2:
        return string
    else:
        return string[-1] + string[1:-1] + string[0]

# Test case
input_string = "Hello"
new_string = exchange_chars(input_string)
print(new_string)
```

```
oellH
```

1. Write a Python function that takes a list of words and returns the length of the longest one

In [6]:
```
def longest_word_length(words):
    max_length = 0
    for word in words:
        if len(word) > max_length:
            max_length = len(word)
    return max_length

# Test case
word_list = ["apple", "banana", "cherry", "jackfruit", "eggplant"]
length = longest_word_length(word_list)
print(length)
```

```
9
```

1. Write a Python program to remove the nth index character from a nonempty string

In [4]:
```
def remove_nth_character(string, n):
    if len(string) <= n:
        return string
    else:
        return string[:n] + string[n+1:]
```

```
input_string = "Hello"
index_to_remove = 2
new_string = remove_nth_character(input_string, index_to_remove)
print(new_string)
```

```
Helo
```

1. Check if a given key already exists in a dictionary #input #d = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
   #is_key_present(5) #is_key_present(9) #output #Key is present in the dictionary
   #Key is not present in the dictionary

In [5]:
```
def is_key_present(dictionary, key):
    if key in dictionary:
        print("Key is present in the dictionary")
    else:
        print("Key is not present in the dictionary")

# Test case
dictionary = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
is_key_present(dictionary, 5)
is_key_present(dictionary, 9)
```

```
Key is present in the dictionary
Key is not present in the dictionary
```