1. Write a Python program to find the second smallest number in a list.

In [1]:
```
def second_smallest(numbers):
    if (len(numbers)<2):
        return
    if ((len(numbers)==2)  and (numbers[0] == numbers[1]) ):
        return
    dup_items = set()
    uniq_items = []
    for x in numbers:
        if x not in dup_items:
            uniq_items.append(x)
            dup_items.add(x)
            uniq_items.sort()
    return  uniq_items[1]

print(second_smallest([1, 2, -8, -2, 0]))
```

```
-2
```

2. 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 exchg_strchar(str):
    return str[-1] + str[1:-1] + str[0]

print(exchg_strchar("AIML-COURSE"))
```

```
EIML-COURSA
```

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

In [3]:
```
def long_word(lst):
    wordlen = len(lst[0])
    lword = lst[0]

    for i in lst:
        if (len(i) > wordlen):
            wordlen = len(i)
            lword = i

    print("Longest word is:", lword)
    print("Length of longest word is:", wordlen)

lst = ["AIML", "JNTUH", "Hyderabad", "6Months"]
long_word(lst)
```

```
Longest word is: Hyderabad
Length of longest word is: 9
```

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

In [4]:
```
string=input("Enter non-empty string:")
n=int(input("Enter the index of the character to remove:"))
first = string[:n]
last = string[n+1:]
print("String after deleting n'th index:",first+last)
```

```
Enter non-empty string:AIML - COURSE
Enter the index of the character to remove:3
String after deleting n'th index: AIM - COURSE
```

5. Check if a given key already exists in a dictionary

In [5]:
```
d = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
def is_key_present(x):
    if x in d:
        print('Key is present in the dictionary')
    else:
        print('Key is not present in the dictionary')

is_key_present(5)
is_key_present(9)
```

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