

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

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

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

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

5. 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'''
```

## Question 1

```
In [5]: a=[1, 52, -8, -2, 0,5,2,34,6]
print(a)
a.sort()
print(a[1])

[1, 52, -8, -2, 0, 5, 2, 34, 6]
-2
```

## Question 2

```
In [6]: def str_Exchange(a):

    front=a[0]
    i=len(a)-1
    end=a[i]
    middle=a[1:i]
    str2=end+middle+front
    return str2

str = input('Enter a string: ')
print(str_Exchange(str))

Enter a string: Python Programming
gython ProgramminP
```

## Question 3

```
In [34]: z= 'i am doing the python program as a assignment'
c=z.split()
print(c)
y=[]
for i in c:
    y.append(len(i))
print(y)
y.sort()
print(y[-1])

['i', 'am', 'doing', 'the', 'python', 'program', 'as', 'a', 'assignment']
[1, 2, 5, 3, 6, 7, 2, 1, 10]
[1, 1, 2, 2, 3, 5, 6, 7, 10]
10
```

## Question 4

```
In [11]: a=input('Enter a String: ')

b=int(input('Enter a index value to remove from string: '))
c=''
if b<=len(a)-1:
    for i in range(0,len(a)):
        if (i != b):
            c+=a[i]
else:
    print("Index Out of Range")
print(c)

Enter a String: Hello World
Enter a index value to remove from string: 6
Hello orld
```

## Question 5

```
In [17]: def is_key_present(a,c):

    if (a in c):
        return print('Key is present in dictionary')
    else:
        return print('Key is not present in dictionary')

d={1:10,2:20,3:30,4:40,5:50,6:60}
b=d.keys()
is_key_present(5,b)
is_key_present(9,b)

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

In [ ]: