

# hp-07

July 1, 2023

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

```
[1]: a = list(input("Enter Numbers:").split( ))
a.sort()
n = len(a)

print("Second smallest number is:",a[1])
```

Enter Numbers:22 -2 0 4 3 75  
Second smallest number is: 0

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

```
[11]: str_1 = str(input("Enter a string:"))
a = str_1[0]
b = str_1[-1]

print("New string :", b + str_1[1:-1] + a)
```

Enter a string:datastructures  
New string : satastructured

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

```
[15]: words = list(input("Enter words:").split())
n = len(words[0])
temp = words[0]

for i in words:
    if(len(i) > n):

        n = len(i)
        temp = i

print("Longest word is: ",temp,"and length is:",n)
```

Enter words:puppy praphul hampapuram  
Longest word is: hampapuram and length is: 10

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

```
[12]: string = str(input("Enter a string:"))
index = int(input("Enter the nth index to be removed:"))

a = string[0:index]
b = string[index+1:]

print("Modified string is: ", a+b)
```

Enter a string:Hampapuram praphul  
Enter the nth index to be removed:4  
Modified string is: Hamppuram praphul

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

```
[7]: def is_key_present(key):
      d = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
      if key in d.keys():
          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