Assignment -3

Program 1

```
word = "Pomegranate"
def longWord(fruits):
 wordLength = 1
 for word in fruits:
    if len(word) >= wordLength:
     position = fruits.index(word)
      wordLength = len(word)
 return position
words = ["Apple", "Mango", "Banana", "Pineapple", "MuskMelon", "WaterMelon", "Po
megranate", "Lychee", "StrawBerry", "Orange"]
pos = longWord(words)
print("The longest word is ",words[pos], "with length", len(words[pos]))
                                       <u>Output</u>
```

The longest word is Pomegranate with length 11

```
# 2. Python function to remove the nth index character from a nonempty string.

"''
String is immutable in Python.
Removing a character at nth index will require to form a new string.
This can be done by removing the nth index character using string slicing.
Here, original string = "This is a new journey."
Characters:T h i s i s a n e w j o u r n e y .
Index: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
During the function call removeChar(pos, word),
len(word) ->22 > 0 . The string is not empty
new_word = word[:pos]+word[post1:] -
> character at index pos will not be added to the new word
new_word = word[:11]+word[12:] -
> character at index 11 will not be added to the new word
"''
def removeChar(pos, word):
    if len(word)>0:
        new_word
s = "This is a new journey."
p = 11
new_s = removeChar(p,s)
print("Original string:", s)
print("After removing character",s[p]," at index:",p,", new string:", new_s)
```

Output

Original string: This is a new journey. After removing character e at index: 11 , new string: This is a nw journey.

```
Character = '.'
new_string[0] = Welcome to python
def lastPart(o string, ch):
 new string = o string.rpartition(ch)
 return new string
s = "Welcome to python. Python is used for Data Science; I am attending a course
new s = lastPart(s, c)
print("Original string:", s)
print("Character:", c)
print("New String:", new s[0])
```

Output

Original string: Welcome to python. Python is used for Data Science; I am attending a course for Data Science at JNTUH SCDE! Character: . New String: Welcome to python

```
# 4. Python function to sort a string lexicographically.
def lexi(names):
    new_names = sorted(names)
    return new_names
nl = ["John", "Mary", "Ashutosh", "Devin", "Suchit", "Sai Priya", "Ankita"]
    n = lexi(nl)
    print(n)
```

<u>Output</u>

['Ankita', 'Ashutosh', 'Devin', 'John', 'Mary', 'Sai Priya', 'Suchit']

```
# 5. Python function to remove spaces from a given string.
def removeSpaces(s):
    new_s = s.replace(" ","")
    return new_s
# generate any random sentence : https://randomwordgenerator.com/sentence.php
s = "The Great Dane looked more like a horse than a dog."
print(removeSpaces(s))
```

Output

TheGreatDanelookedmorelikeahorsethanadog.