

Assignment 3

In [10]: *# 1. Python function that takes a list of words and return the longest w*

```
def longword(list1):
    l=0
    word=''
    for i in list1:
        if(len(i)>l):
            l=len(i)
            word=i
    print("longest word ",word)
    print("longest word length",l)

longword(["abcd", "abcde", "ab", "abcdef", "abc"])
```

```
longest word abcdef
longest word length 6
```

In [27]: *# 2. Python function to remove the nth index character from a nonempty st*

```
def removenthindex(s,n):
    str=s[0:n]+s[n+1:]
    print(str)

s=input("Enter a string ")
n=int(input("Enter index "))
removenthindex(s,n)
```

```
Enter a string nagendra
Enter index 2
naendra
```

In [32]: *#3. Python function to get the last part of a string before a specified c*

```
def lastpart(s,c):
    i=s.index(c)
    print(s[i+1:])

s=input("Enter a string ")
c=input("Enter a character ")
lastpart(s,c)
```

```
Enter a string nagendra
Enter a character g
endra
```

In [35]: *#4. Python function to sort a string lexicographically.*

```
def lexicographical(s):  
    return sorted(s)
```

```
print("Lexicographically sorted string is",lexicographical(input("Enter a
```

Enter a string nagendra123

Lexicographically sorted string is ['1', '2', '3', 'a', 'a', 'd', 'e', 'g',
'n', 'n', 'r']

In [37]: *#5. Python function to remove spaces from a given string.*

```
def removespaces(s):  
    output=''  
    str=s.split()  
    for i in str:  
        output+=i  
    print(output)
```

```
removespaces(input("Enter a string "))
```

Enter a string nagendra is a bad boy
nagendraisabadboy