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1.def list_len(lis1):
    my_long_word=len(lis1[0])
    a=lis1[0]
    for i in lis1:
        y=len(i)
        if (y > my_long_word):
            my_long_word=y
            a=i
    print("longest word is :",a," longest word length is :",my_long_word)
b=["welcome","to","python","programming","Guys"]
list_len(b)
```

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2.def remo_index_char(a):
    x=int(input("please enter nth character"))
    y=x+1
    new_str=a[:x]+a[y:]
    print(new_str)
a=input("please provide a word")
remo_index_char(a)
```

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3.my_str=input("please enter a string")
a=input("enter a specified character")
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try :
    b = my_str.index(a)
    c=my_str[b+1:]
    print(c)
except :
    print("please provide valid input")
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4.def my_lexo(a):
    b=a.split()
    b.sort()
    my_out=""
    for i in b :
        my_out=my_out +" "+ i
    print(my_out)
a=input("please provide a sentence")
my_lexo(a)
```

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5.def rem_spaces(a):
    b=a.replace(" ","")
    print(b)
x=input("enter your word")
rem_spaces(x)
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