# Tuple  
a=(1,2,3)  
  
#Tuples are immutable, lists are mutable  
  
print(a[0])  
a=('csk','mi')  
print(a)  
b = list(a)  
print(b)  
  
#Dictionaries  
  
# in list  
ipl= ['csk','mi','rcb']  
ipl= [['csk','chennai super kings'],['mi','mumbai indians']]  
print(ipl[0][1])  
  
# now in dictionary is mutable  
ipl={  
 "csk":"chennai super kings",  
 "mi":"mumbai indians"  
}  
  
print(ipl["csk"])  
ipl["lsg"]= "lucknow super gaints"  
print(ipl)  
  
del ipl["csk"]  
print(ipl)  
  
ipl= {  
 "CSK": {"Name": "chennai super kings","captain": "MSD"},  
 "MI": {"Name": "mumbai indians","captain": "RS"},  
 "RCB": {"Name": "chennai super kings"},  
}  
print(ipl)  
#orders does not matter because keys are important in dictionary  
#structure should be same key and value  
  
######################################################################  
list=[1,2] #non immutable  
tuple=(1,2) #mutable  
dictionaries={"rajan","rugwed"}  
  
#string, number and boolean  
#control flow using if else  
# less than 30 is fail  
marks =40  
if marks <30 :  
 print("fail")  
 print(f"marks are {marks}")  
else:  
 print("pass")  
print("coming out of white space")  
  
  
if "CSK" in ipl :  
 print("CSK IN IPL")  
else:  
 print("NOT THERE")  
  
if marks <30 :  
 print("fail")  
 print(f"marks are {marks}")  
elif marks >=30 and marks<=60:  
 print("just pass")  
else:  
 print("pass")  
  
  
# loops  
num = [1,2,3]  
num\_square=[]  
#while  
n=0  
while n < len(num):  
 print(f"it is still less than 5 ieteration number {n}")  
 num\_square.append(pow(num[n],2))  
 print(num\_square)  
 n=n+1  
  
#for loops  
num\_sqr=[]  
for n in num:  
 num\_sqr.append(n \*\* 2)  
 print(num\_sqr)