print(7\*\*4)

s="Hi there Sam!"

l=s.split()

l[-1]="dad!"

print(l)

planet="Earth"

diameter=12742

print("The diameter of {} is {} kilometers".format(planet,diameter))

lst=[1,2,[3,4],[5,[100,200,["hello"]],23,11],1,7]

print(lst[3][1][2][0])

d={'k1':[1,2,3,{'tricky':['oh', 'man','inception',{'target':[1,2,3,'hello']}]}]}

print(d['k1'][3]['tricky'][3]['target'][3])

print("Tuples are immutable and values can't be alttered within it and Lists are mutable")

def domain(a):

return a.split("@")[-1]

print(domain("user@domain.com"))

def fun(a):

return True if "dog" in a else False

print(fun("dog"))

def fun(a):

return a.count("dog")

print(fun("dot"))

def ticket(speed,bod):

if bod:

speed-=5

if speed>80:

return "Big Ticket"

elif speed>60:

return "Small Ticket"

else:

return "No Ticket"

print(ticket(70,True))

print(ticket(90,False))