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DEPT:BE(CIVIL)

CLASS:SECTION”F”

PYTHON ASSIGNMENT

lst=[22,4,26,6,78,12]

first=0

last=len(lst)/2

mid=first+last//2

print(mid)

def recursion(a):

pass

if a==0:

return

print(a)

a-=1

recursion(a)

recursion(5)

def recursion(x):

pass

if x==0:

return

print(x)

x-=1

recursion(x)

recursion(10)

list=[12,11,10,9,8]

first=0

last=len(list)-1

middle=first+last//2

print(list[middle])

list\_1=list[:middle]

list\_2=list[middle:]

print(list\_1)

print(list\_2)

last=len(list\_1)-1

middle=first+last//2

print(list\_1[middle])

list\_3=list\_1[:middle]

list\_4=list\_1[middle:]

print(list\_3)

print(list\_4)

myList=[12,54,3,85,73,99,37,29]

def mergesort(list):

if len(list)<2:

return list

mid=int(len(list)/2)

x=mergesort(list[:mid])

y=mergesort(list[mid:])

output=[]

i=0

j=0

while i<len(x) and j<len(y):

if x[i]>y[j]:

o

j+=1

else:

output.append(x[i])

i+=1

output+=x[i:]

output+=y[j:]

return output

print("The sorted list is:",mergesort(list))

