# EXP2A CREATE LIST, ACCESSING USING INDEX & SLICING METHODS

# creation of empty list

list=[]

print(list)

print(type(list))

# create list of numbers and access elements using indexing method

a=[10,20,30,40,50]

# list accessing using indexing method

#DISPLAY 2ND ELEMENT

print("list second element=", a[1])

print("ALL forward indexing elements")

for i in range(0, len(a)):

print(a[i])

print("display list element direct access")

for x in a:

print(x)

# list accessing using negative indexing

print("Backward access using negative indexing")

for i in range(-1, -len(a)-1,-1):

print(a[i])

# List access using slicing method

#list accessing using slicing method

a=[10,20,30,40,50]

b=a[0:3]

print("New list b elements")

print(b)

print("elements from a ")

print(a[0:4])

print("selecting elements in even position")

print(a[0:5:2])

print("selecting elements in odd position")

print(a[1:5:2])

print("select all elements")

print(a[::])

print("select all elements in reverse order")

print(a[::-1])

print("negative selection")

print(a[-1:-3:-1])