Q1 :

V = [0,0,0,0,0,0,0]

#The highest value

V[0]= 10

#The lowest value

V[-1]= 10

print (V)

Q2:

R = [6,3,8,1,7]

#By using slicsing I can revers.

x=R[::(-1)]

print (x)

Q3:

C = ['red' , 'yellow', 'pink', 'black']

x=C.insert(1,'purple')

#print(C)

y=C.pop(3)

#print(C)

C[3]= 'Black'

C.append('green')

#C[-1]= "green"

#C[0]= 'green'

print (C)

Q4:

fruits = ['orange','apple','pear','banana','kiwi','banana']

a= fruits.count("apple")

print("apple number =" ,a)

index\_of\_banana=fruits.index('banana')

print ("The index of banana: ", index\_of\_banana)

index\_of\_banana\_2=fruits.index('banana',4)

print ("The index of banana, 4: ", index\_of\_banana\_2)

fruits.reverse()

print (fruits)

#print ("The revers of fruits list: ", reverse\_1)

append\_of\_grape= fruits.append("grape")

print ("The append of grape: ", append\_of\_grape)

sorte\_list= fruits.sort()

print ("Sortting of fruits list: ", sorte\_list)

pop\_list= fruits.pop()

print ("pop list : ", pop\_list)

#print (fruits)

Q5:

In = [23,54,76,12,90]

for i in range (len(In)):

print (In[i], end="|")

print ()

Q6:

list\_1= [0,1,0,2,0,3,0,4,0,5]

#count1 = 0

for i in range (len(list\_1)):

if i == 0:

count= list\_1.count(0)

print ("count of 0= ", count)

Q7:

d = "a\*hj"

print(list(d))

Q8:

b= ['p', 'r','a', 'c', 't', 'i', 'c', 'e']

for i in b:

print(i, end="?")

Q9:

b= "Hello World"

a = list(b)

print (a)

print (len(a))

print (a[1:11])

print (a[-2:-5:-1])

print (a[::2])

print (a[:4])

print (a[4:])

Q10:

import random

import string

n = int (input ("Enter a size: "))

def get\_random\_string(length):

result\_str = ''.join(random.choice(string.ascii\_letters) for i in range(length))

print(result\_str)

get\_random\_string(n)