Assignment - 10

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1A, 2A, 3A, 4A.
list1 = [9,2,3,4,5]
print("the list: ",list1)
sum=0
prd=1
small=list1[0]
large=list1[0]
even=[]
odd=[]
for i in list1:
  sum=sum+i
print("add: ",sum) # add
for i in list1:
  prd=prd*i
print("prd: ",prd) # multiply
for i in list1:
  if (i<small):
    small=i
print("smallest: ",small)
for i in list1:
  if (i>large):
    large=i
```

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5A.
list1 = [10, 20, 4, 45, 99]
mx=max(list1[0],list1[1])
secondmax=min(list1[0],list1[1])
n = len(list1)
for i in range(2,n):
 if list1[i]>mx:
    secondmax=mx
    mx=list1[i]
  elif list1[i]>secondmax and \setminus
    mx != list1[i]:
    secondmax=list1[i]
print("Second highest number is : ",\
   str(secondmax))
6A.
def Nmaxelements(list1, N):
 final_list = []
 for i in range(0, N):
    max1 = 0
    for j in range(len(list1)):
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if list1[j] > max1:
        max1 = list1[j];
    list1.remove(max1);
    final_list.append(max1)
  print(final_list)
# Driver code
list1 = [2, 6, 41, 85, 0, 3, 7, 6, 10]
N = 2
# Calling the function
Nmaxelements(list1, N)
7A.
print(list1)
print('Even nos:')
for i in range(len(list1)):
  if (list1[i]%2==0):
    print(list1[i])
8A.
print(list1)
print('Odd nos:')
for i in range(len(list1)):
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if (list1[i]%2!=0):
    print(list1[i])
9A.
test_list=[1,2,[],4]
res = [ele for ele in test_list if ele != []]
print(res)
10A.
list1_orig=[1,2,3]
list1_copy = list1_orig[:]
list1_copy
11A.
def countX(lst, x):
  count = 0
  for ele in lst:
    if (ele == x):
      count = count + 1
  return count
# Driver Code
lst = [8, 6, 8, 10, 8, 20, 10, 8, 8]
x = 8
print(countX(lst,x)," is no of occurences of 8")
```