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Div: A

- 1. Write a program to perform following operations on list
- 1. Sum all the items in a list.
- 2. Get the largest number from a list.
- 3. Remove duplicates from a list.
- 4. Separate positive and negative number from a list.
- 5. Filter even and odd number from a list.

Code:

```
num = [1,-2,4,8,5,2,4,7,-3,5]
```

```
#sum of elements in list
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```
sum = 0
```

for i in range(len(num)):

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sum = sum + num[i]
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print("Sum of elements in list:",sum)

#Largest number in list

print("Largest number in list is:",max(num))

```
#remove duplicates from list
final_list = []
for i in num:
  if i not in final_list:
    final_list.append(i)
print("List after removing duplicates:",final_list)
#separate positive and negative number in list
pos list = []
neg_list = []
for i in range(len(num)):
  if(num[i]>0):
    pos_list.append(num[i])
  else:
    neg_list.append(num[i])
print("Positive numbers list:",pos_list)
print("Negative numbers list:",neg_list)
#filter even and odd number from list
evenlist = []
oddlist = []
for i in num:
```

```
if (i % 2 == 0):
    evenlist.append(i)
  else:
    oddlist.append(i)
print("Even list:", evenlist)
print("Odd list:", oddlist)
Output:
Sum of elements in list: 31
Largest number in list is: 8
List after removing duplicates: [1, -2, 4, 8, 5, 2, 7, -3]
Positive numbers list: [1, 4, 8, 5, 2, 4, 7, 5]
Negative numbers list: [-2, -3]
Even list: [-2, 4, 8, 2, 4]
Odd list: [1, 5, 7, -3, 5]
```