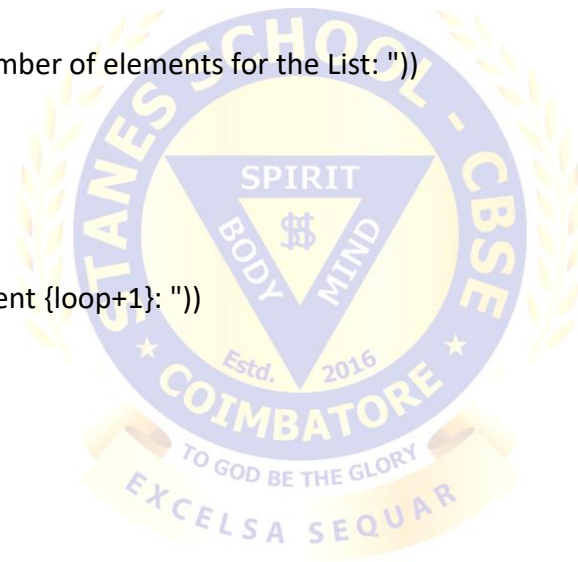#Program 2 - SUM, PRODUCT, SQUARES OF ELEMENTS OF LIST

SOURCE CODE:

```python
print('Name: Nitesh kumar.S')

print('Roll no: 12316')

print('Class & section: XII-C')

print('NAME OF THE PROGRAM:SUM, PRODUCT, SQUARES OF ELEMENTS OF LIST')

print()

Sum=0

Product=1

fact=1

sqlst=[]

elems=int(input("Enter the number of elements for the List: "))

List=[]


for loop in range(elems):

    data=int(input(f"Enter element {loop+1}: "))

    List.append(data)

print("Your List -->",List)


for e in List:

    Sum=Sum+e

    Product=Product*e

    Square=e*e

    sqlst.append(Square)

print()

print("The Sum of the Elements of your List is: ",Sum)

print("The Product of the Elements of your List is: ",Product)

print("The Squares of the Elements of your List is: ",sqlst)
```

OUTPUT:

```
Name: Nitesh kumar.S
Roll no: 12316
Class & section: XII-C
NAME OF THE PROGRAM:SUM, PRODUCT, SQUARES OF ELEMENTS OF LIST

Enter the number of elements for the List: 4
Enter element 1: 50
Enter element 2: 20
Enter element 3: 30
Enter element 4: 60
Your List --> [50, 20, 30, 60]

The Sum of the Elements of your List is:  160
The Product of the Elements of your List is:  1800000
The Squares of the Elements of your List is:  [2500, 400, 900, 3600]
```

RESULT:
PROGRAM IS EXECUTED SUCCESSFULLY