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Sum is 150

Python Programming - 2304CS401

Lab - 5

Understand Working of list

01) Write a program to find the sum of all the elements in the list.

02) Write a program to find the smallest and largest element from the list entered by the user

```
In [2]: n=int(input("Enter Size Of List :"))
    11=[]
    for i in range(n):
        11.append(int(input("Enter Elements of list: ")))
    max=11[0]
    min=11[0]
    for i in l1:
        if i>max:
            max=i
        elif i<min:</pre>
             min=i
    print(l1)
    print(f"Minimum No is :{min}")
    print(f"Maximum No is :{max}")
    [10, 5, 20, 33, 44]
    Minimum No is :5
    Maximum No is :44
```

03) Write a program to take a list from the user split the list into two and append the first part to the end of the list.

04) Write a program to interchange the first and last elements of a list entered by a user.

05) Write a program to reverse the list entered by the user

06) Write a program to print all even numbers of the list entered by the user.

07) Write a program to search for an element in a list.

```
In [7]: n=int(input("Enter Size Of List :"))
search= False
l1=[]
for i in range(n):
    l1.append(int(input("Enter Elements of list: ")))
number = int(input("Enter A Number to be Search :"))
print(l1)
for i in l1:
    if i == number:
        print(f"{number} is Found ..")
        search = True
if search==False:
    print("Element Not Found...")
```

20 is Found ..

08) Write a program to sort a list in ascending order

09) Write a program to convert a list of characters entered by the user into a string.

10) Write a program to interchange the list elements based on two positions entered by a user

11) Write a program to print all odd numbers of the list entered by the user.

12) Write a program to enter the name, quantity, and price of five products by a user. Generate and print all the details with the product's total

amount in a formatted manner using list

```
In [1]: product_names = []
    quantities = []
    prices = []
    for i in range(5):
        print(f"Enter Details of Product {i+1}")
        name = input("Enter Product Name :")
        quantity = int(input("Enter Quantity :"))
        price = float(input("Enter Price :"))
        product names.append(name)
        quantities.append(quantity)
        prices.append(price)
    print("\nProduct Details :")
    print(f"{'Name':<20} {'Quantity':<10} {'Price':<10} {'Total Amount':<15}")</pre>
    for i in range(5):
        total_amount = quantities[i] * prices[i]
        print(f"{product names[i]:<20} {quantities[i]:<10} {prices[i]:<10} {tot</pre>
    Enter Details of Product 1
    Enter Details of Product 2
    Enter Details of Product 3
    Enter Details of Product 4
    Enter Details of Product 5
    Product Details :
                          Quantity
    Name
                                     Price
                                                 Total Amount
                          2
                                     10.0
                                                 20.0
    chocolate
    butter
                          3
                                     30.0
                                                90.0
                          2
                                     27.0
                                                 54.0
    bread
    milk
                          1
                                     50.0
                                                 50.0
    banana
                          12
                                     5.0
                                                 60.0
```