

Lab Tasks:

1. Write a program that finds the second highest number in a float type array of 20 elements using pointer.
2. Write a program that calculates the sum of all the elements in array using pointers
3. Write a program in C++ to calculate and print the Electricity bill of a given customer. The customer id, name and unit consumed by the user should be taken from the keyboard and display the total amount to pay to the customer. The charges are as follow:

Unit	Charge/Unit
Up to 199	@16.20
200 and above but less than 300	@20.10
300 and above but less than 500	@27.10
500 and above	@35.90

If bill exceeds Rs. 18000 then a surcharge of 15% will be charged on top of the bill.

Test Input:

1001 //Customer ID

James //Customer Name

800 //Units Consumed

Expected Output:

Customer ID :1001

Customer Name: James

Units Consumed :800

Amount Charges @Rs. 35.90 per unit: 28720

Surcharge Amount: 4308

Net Amount Paid by the Customer: 33028.00

4. Write a program that prompts the user to enter the weight of a person in kilograms and outputs the equivalent weight in pounds. Output both the weights rounded to two decimal places. (Note that 1 kilogram = 2.2 pounds.) Format your output with two decimal places.

- _____

Output: The output is as shown above.

Input:

Output:

Student name: Andrew Miller

Test scores: 87.50 89.00 65.75 37.00 98.50

Average test score: 75.55