REPORT FOR 0X04 DIRECTORY!!

Date:18th June,2022 Time: 10:24 pm

Ojective: loops and arrays

a product is calculated and the values are assigned to a data array and the total is calculated.

I started by including a standard input output header file using the #include <stdio.h>

Then we defined an expression TOTAL_SIZE to be 20 using the #define directive

in the main() function, we are using an input integer data[TOTAL_SIZE]; ,total, i , j and product variables ,we then initialized total to 0.

then we then used a for loop to initialize i and do a comparison with TOTAL_SIZE; then we incremented i. inside the code block if the condition was true, then product = i * TOTAL_SIZE, we are saving product of i and TOTAL_SIZE

.data[i] = product, here we then put the value of the product into data[i] then we add total to product and save at total.

We then declare a floating point avg variable.

we initialized avg to (total / TOTAL_SIZE), we then will take total and divide it with TOTAL_SIZE and then assign the value to avg.

we.printf("Average is: %f \n", avg);.will print the Average.

another for loop was used to initialize ($j = TOTAL_SIZE$; and if j > 0; we minus j--;

since this condition was true ,we move to the code block and use printf("The Element at %d ",j); to print the element in decreasing order. then prinft("is: %d\n", data[j]);. This will print the number saved in index of data[j].return 0; will exit the program successfully.