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#include <stdio.h>

void main()

{

//declare variables

float sales[1000]; //array big enough not to be filled for this use program's use

int i = 0;

float totalSales = 0.0;

float averageSales = 0.0;

int additionalDays = 0;

//ask for the daily sales 7 times

for (i = 0; i < 7; i++)

{

printf("Enter sales total (Euro) for day %d: ", i + 1);

scanf\_s("%f", &sales[i]);

}

//calculate total sales the first time

for (int j = 0; j < i; j++)

{

totalSales = totalSales + sales[j];

}

//display total sales

printf("\nTotal sales is: %0.2f", totalSales);

//calculate and then display average sales

averageSales = totalSales / i;

printf("\nAverage daily sales is: %0.2f", averageSales);

//ask user amount of additional days to record and then store variable

printf("\n\nHow many additional days would you like to record? ");

scanf\_s("%d", &additionalDays);

//while there is an additonal day, ask the user for daily sales

//(store the sales for additional days)

int k = 0;

while (k < additionalDays)

{

printf("Enter sales total (Euro) for day %d: ", i + 1);

scanf\_s("%f", &sales[i]);

i++; //increase i to keep track of amount of sales entered into array.

k++; //increment to run this loop again.

}

//if the user has added additonal days, display the updated values

if (additionalDays > 0)

{

//calculate total sales the second time

totalSales = 0.0; //set totalSales to zero to recalculate

for (int j = 0; j < i; j++)

{

totalSales = totalSales + sales[j];

}

//display total sales

printf("\n\nThe updated total sales is: %0.2f", totalSales);

//calculate and display average sales for the second time.

averageSales = totalSales / i;

printf("\nThe updated average daily sales is: %0.2f\n", averageSales);

}

//print the sales for each day

for (int m = 0; m < i; m++) //loop the size of the array (i)

{

printf("\nSales for day %d: %0.2f euro.", m + 1, sales[m]);

}

}

