PF lab 10 problem 3 Temperature barrier cross count :

#include <stdio.h>

// Defining the temperature highest limit constant

#define TEMPERATURE\_LIMIT 80

// Function to compare the input temperatures

int compare(int temperature[], int noofinputs) {

static int exceedCount = 0; // Static variable to count how many times temperature exceeds the limit

for (int j = 0; j < noofinputs; j++) {

if (temperature[j] > TEMPERATURE\_LIMIT) {

exceedCount++; // Increment the counter when temperature exceeds the limit

}

}

return exceedCount; // Return the total count of exceedances

}

int main() {

int noofinputs;

// Input the number of temperatures to be checked

printf("Enter the number of temperatures you want to input: ");

scanf("%d", &noofinputs);

int value[noofinputs]; // Array to store the temperatures

// Input the temperatures

for (int i = 0; i < noofinputs; i++) {

printf("Enter temperature %d: ", i + 1); // Use i + 1 to make the prompt more user-friendly

scanf("%d", &value[i]);

}

// Call the function to compare and count exceedances

int counter = compare(value, noofinputs);

// Output the result

printf("The temperature exceeded the max limit %d times.\n", counter);

return 0;

}

