//

// main.c

// Chpt5PP7a

//

// Created by Randy McMillan on 10/7/13.

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//

#include <stdio.h>

#include <string.h>

#define HOT 85

#define PLEASANT 60

#define CATEGORY\_HOT "hot"

#define CATEGORY\_PLEASANT "pleasant"

#define CATEGORY\_COLD "cold"

void myMain();

void inputTemp();

void calculateCategory(float);

void inputAnotherTemp();

void runProgramAgain();

void printHotDays();

void printPleasantDays();

void printColdDays();

float temp;

int hot, pleasant, cold;

int main(int argc, const char \*argv[])

{

myMain();

return 0;

}

void myMain()

{

inputTemp();

runProgramAgain();

}

void inputTemp()

{

printf("Please input a temperature --> ");

scanf("%fl\n", &temp);

calculateCategory(temp);

inputAnotherTemp();

}

void calculateCategory(float c)

{

if (c >= HOT) {

hot++;

} else if (c >= PLEASANT) {

pleasant++;

} else {cold++; }

}

void inputAnotherTemp()

{

char yesOrNo[100];

printf("Would you like to input another temperature? y/n ");

scanf("%s", yesOrNo);

if (strncmp(yesOrNo, "y", 2) == 0) {

printf("\n");

inputTemp();

}

if (strncmp(yesOrNo, "n", 2) == 0) {

printHotDays();

printPleasantDays();

printColdDays();

}

}

void printHotDays()

{

printf("\nThere were %i %s days.\n", hot, CATEGORY\_HOT);

}

void printPleasantDays()

{

printf("\nThere were %i %s days.\n", pleasant, CATEGORY\_PLEASANT);

}

void printColdDays()

{

printf("\nThere were %i %s days.\n\n", cold, CATEGORY\_COLD);

}

void runProgramAgain()

{

char yesOrNo[100];

printf("Would you like to run the program again? y/n ");

scanf("%s", yesOrNo);

if (strncmp(yesOrNo, "y", 2) == 0) {

printf("\n");

temp = 0;

hot = 0;

pleasant = 0;

cold = 0;

myMain();

}

if (strncmp(yesOrNo, "n", 2) == 0) {

printf("\nGood Bye!\n");

}

}

