//

// 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();

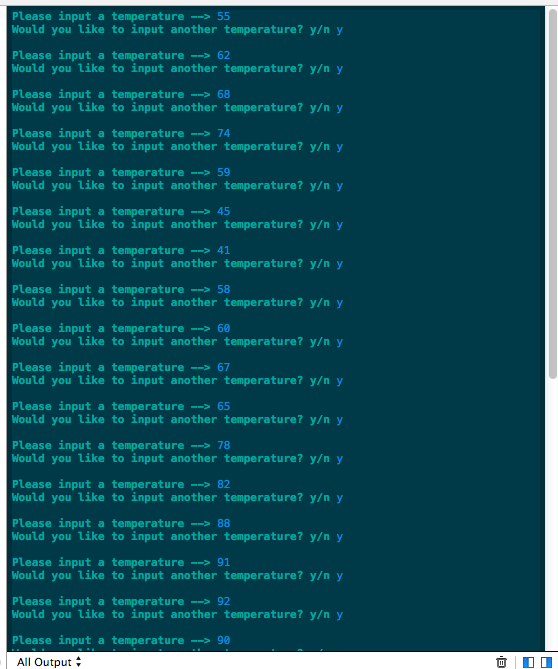
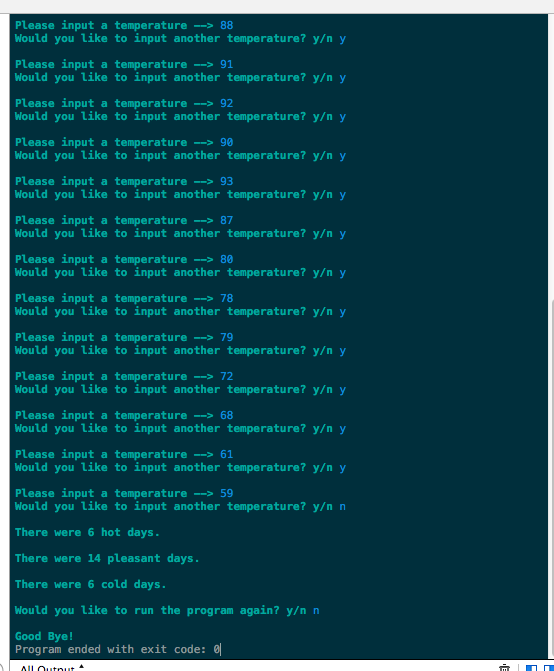
}

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

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

}

}



//

// main.c

// Chpt5PP12

//

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

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//

#include <stdio.h>

#include <string.h>

#define TWOTHOUSANDANDFIVE 2005

float prediction;

int year;

void myMain();

void inputYear();

void inputAnotherYear();

float fast\_food\_billions(int);

void outputPrediction(float);

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

{

myMain();

return 0;

}

void myMain()

{

inputYear();

// F(t) = 33.2 + 16.8t

prediction = fast\_food\_billions(year);

if (year >= 2005) {

outputPrediction(prediction);

} else {

printf("An input of a year prior to 2005 will not yield an answer.\n");

}

inputAnotherYear();

}

void inputYear()

{

// I could have prompted the user //Tell the user that entry of a year before 2005 will cause the program to stop.

printf("Please input a year after 2005 --> ");

scanf("%i", &year);

}

// F(t) = 33.2 + 16.8t

float fast\_food\_billions(int t)

{

return 33.2 + 16.8 \* (t - TWOTHOUSANDANDFIVE);

}

void outputPrediction(float p)

{

printf("%.2lf\n", p);

}

void inputAnotherYear()

{

// I could have prompted the user //Tell the user that entry of a year before 2005 will cause the program to stop.

char yesOrNo[100];

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

scanf("%s", yesOrNo);

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

printf("\n");

myMain();

}

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

printf("Thanks for using this program!\nGood Bye!\n");

//

//

}

}

