Program 4

Resistor Calculations

Name: _____ Time spent: ____min

Write a program to read in two resistor values (ints) from the user and calculate and print the series and parallel resistance of the two inputs

100 pts

Use a while(1){ } construct to run the calculations in an infinite loop

The input resistor values range from 1Ω to $1M\Omega$, entered in long form $10K\Omega$ would be entered as 10000

Provide flow diagram, code, and results for $\{1K\Omega, 1K\Omega\}$, $\{2.5K\Omega, 3K\Omega\}$, $\{10K\Omega\}$, $\{10K\Omega, 30K\Omega\}$

```
Programming_Project.exe[C/C++ Application] [pid: 8]

Program HW #4

Dr. Johnson

Resistor Combination Calculator

please enter your 2 resistor values: 500 700

500 Ohms in series with 700 Ohms = 1200.0000000 Ohms

500 Ohms in parallel with 700 Ohms = 291.666656 Ohms

please enter your 2 resistor values: 20000 10000

20000 Ohms in series with 10000 Ohms = 30000.000000 Ohms

20000 Ohms in parallel with 10000 Ohms = 6666.666504 Ohms

please enter your 2 resistor values:
```

Only material covered in class allowed in this program

```
while(1){ ... } construct – used to create an infinite loop
// program comments
int main(void){
 declarations – anything only done once
 while(1){
           // start infinite loop
   code you want to run in the infinite loop
 return 0;
```