Program 5

Resistor Calculations

part 2

Name: _____ Time spent: _____min

Write a program to read in two resistor values (ints) and a character from the user and calculates and prints the series OR 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 1MΩ, entered in long form
10KΩ would be entered as 10000

The character input can be s, S, p, or P

calculate and print the series resistance if the character is s or S

calculate and print the parallel resistance if the character is p or P

Provide flow diagram, code, and results for {1KΩ, 1KΩ, s}, {2.5KΩ, 3KΩ, p}, {10Ω, 10KΩ, S}, {10KΩ, 30KΩ, P}

```
Programming_Project.exe [C/C++ Application] [pid: 16]
Program HW #5
Dr. Johnson

Resistor Combination Calculator - part 2

please enter your 2 resistor values and s, S, p, or P: 2000 2000 P
2000 Ohms in parallel with 2000 Ohms = 1000.000000 Ohms

please enter your 2 resistor values and s, S, p, or P: 2000 2000 s
2000 Ohms in series with 2000 Ohms = 4000.000000 Ohms
```

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;

}