LAB3 Part2 (Week04):

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| Date | 16/10/23 |
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# Coding Lab Exercises

## Exercises 3 (Rs and Rp Problem)

Code>>

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| --- |
| #include <stdio.h>  int main()  {  float R1;  float R2;  float R3;  float Res;  float parallel;  printf("please enter you R1\n");  scanf("%f",&R1);  printf("please enter you R2\n");  scanf("%f",&R2);  printf("please enter you R3\n");  scanf("%f",&R3);  if(R1 <= 0 || R2 <= 0 || R3 <= 0)  {  printf("Error...\nResistance Value(s) cannot be negative or 0!");  }  else if(R1 > 1000 || R2 > 1000 || R3 > 1000)  {  printf("Error...\nResistance Value(s) are great than 1000!\n");  }  else /\* Program continues if conditions are met \*/  {  Res = R1 + R2 + R3;  printf("The total of three Resistor is : %f\n",Res);  /\* Calculating resistors in parallel and displaying\*/  parallel = (1/((1/R1)+(1/R2)+(1/R3)));  printf("\nHere is the result for resistors in parallel: %.2f\n", parallel);  }  return 0;  } |

**Test Results:**

What happened when you ran the program? Paste screen capture here showing the program being run.

A screenshot of a computer error

Description automatically generated

**Comment on the exercise:**

Did the program run as expected? If not state what error message were displayed

What are the limitations of the program as it stands?

Yes the program is running well

## Exercises 4 (Power Problem)

Code

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| --- |
| /\*  Lab 3 Part 2 Exercise 3  Developer: Nneoma Onwe  Date: 15/10/2023  \*/  #include <stdio.h>  int main()  {  /\* Declaration \*/  float Res = 0;  float Volt = 0;  float Power\_disipation = 0;  printf("Enter resistance value between 1 to 700 in Ohms: ");  scanf("%f", &Res);  printf("Enter a voltage value in between 10 to 50 Volts: ");  scanf("%f", &Volt);  /\* Error checking \*/  if(Res < 10 || Res > 700)  {  printf("Error \nResistance must be 1 to 700 Ohms!\n");  }  else if(Volt < 1 || Volt > 50)  {  printf("Voltage must be between 1 and 50 Volts!\n");  }  else /\* continues if conditions are met \*/  {  printf("Values have been successfully!");  /\* Calculating resistors in series and displaying\*/  Power\_disipation = (Volt\*Volt)/Res;  printf("\nHere is the result for Power\_disipation : %.2f Watts\n", Power\_disipation);  if(Power\_disipation > 1)  {  printf("Wattage is above 1 Watts!!!\n");  }  }  return 0;  } |

**Test Results:**

What happens when you run the program? Paste screen capture here showing the program being run.

A black screen with white text

Description automatically generated

**Comment on the exercise:**

Did the program run as expected? If not state what error message were displayed

What are the limitations of the program as it stands?

Yes the program is running well