

Output main.c







```
// Kyle Reed
   // COS-231-300
 2
   // Prof. Wu
 3
   // 8 October 2024
 5
    // C Program defining hard coded V, I, and R values and then returning values for
 6
        answers in a table format for the circuit provided
    #include <stdio.h>
 8
    // Declaration of hard coded floating point numbers for V, I, and R
 9
    float V=36, I=1.33, R1=3, R2=8, R3=4, RF=12;
10
    float VR1, VR2, VR3, VRF, IR1, IR2, IR3;
11
12
13 - int main() {
    // Calculator for values of current and voltage
14
15
      VR1 = I * R1;
     VR2 = I * R2;
16
     VR3 = I * R3;
17
      VRF = VR1 + VR2 + VR3;
18
      IR1 = VRF / R1;
19
20
      IR2 = VRF / R2;
      IR3 = VRF / R3;
21
22
    // Returns results in a table format for the values
23
24
      printf("Voltage of R1: %.2f V.\n", VR1);
      printf("Voltage of R2: %.2f V.\n", VR2);
25
```

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    float VR1, VR2, VR3, VRF, IR1, IR2, IR3;
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    // Calculator for values of current and voltage
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      VR1 = I * R1;
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      VR3 = I * R3;
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      VRF = VR1 + VR2 + VR3;
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      IR1 = VRF / R1;
      IR2 = VRF / R2;
20
21
      IR3 = VRF / R3;
22
23
    // Returns results in a table format for the values
      printf("Voltage of R1: %.2f V.\n", VR1);
24
      printf("Voltage of R2: %.2f V.\n", VR2);
25
      printf("Voltage of R3: %.2f V.\n", VR3);
26
      printf("Voltage of RF: %.2f V.\n", VRF);
27
      printf("Current of R1: %.2f A.\n", IR1);
28
      printf("Current of R2: %.2f A.\n", IR2);
29
30
      printf("Current of R3: %.2f A.\n", IR3);
31
32
      return 0;
33
```

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Output







/tmp/3sHamxXoW4.o

Voltage of R1: 3.99 V.

Voltage of R2: 10.64 V.

Voltage of R3: 5.32 V.

Voltage of RF: 19.95 V.

Current of R1: 6.65 A.

Current of R2: 2.49 A.

Current of R3: 4.99 A.

=== Code Execution Successful ===