Introductory Programming UESTC1005
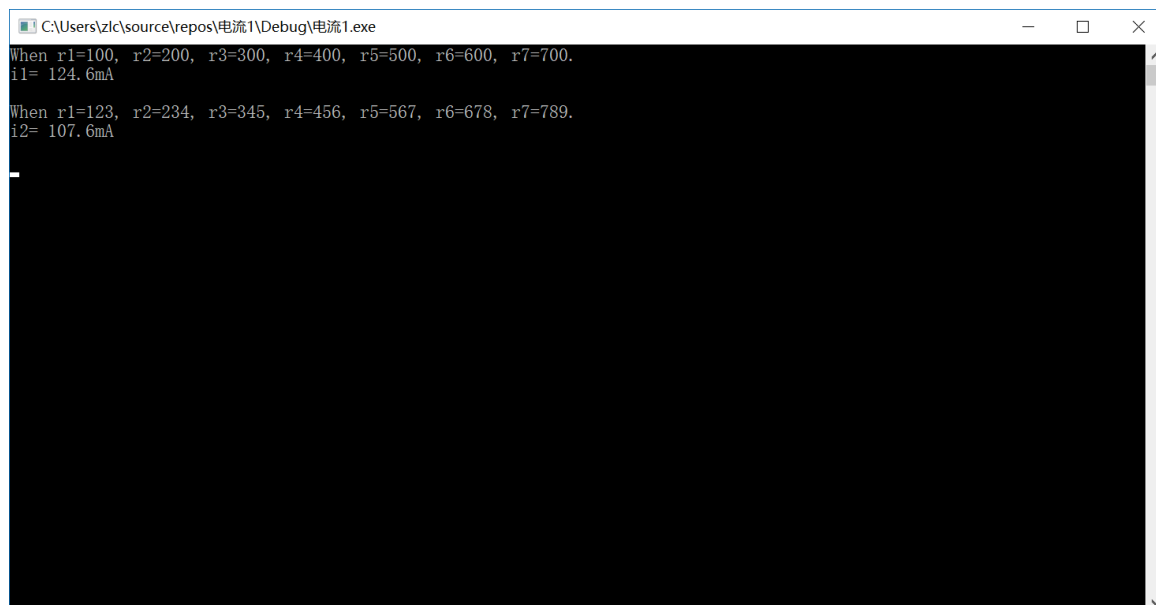
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You will need to complete the demonstration of this week lab and submit this report into BB (it will be added into your portfolio of work).

Exercise 4: Functions

Task_A: Follow the instructions in Week 6 Lab manual and past your screen short of your result here.

Task_B: Please attach your source code here.

```c
#include<stdio.h>
float          float I  float R
{
        float V = I*R;
        return
}
float          float R1  float R2
{
        float R = R1 + R2;
        return
}
float parallel(float R1, float R2)
{
        float R = 1 / (1 / R1 + 1 / R2);
        return
}
float parallel_three(float R1,float R2,float R3)
{
        float R = 1 / (1 / R1 + 1 / parallel(R2, R3));
        return
}
void main()
{
        float r1 = 100, r2 = 200, r3 = 300, r4 = 400, r5 = 500, r6 = 600, r7 = 700;
        float r8, r9, r10,i1, i2;
        r8 = series(r1, r2);
        r9 = parallel(r3, r4);
        r10 = series(parallel(r6, r7), r5);
        i1 = 12000 / parallel_three(r8, r9, r10);
        r1 = 123, r2 = 234, r3 = 345, r4 = 456, r5 = 567, r6 = 678, r7 = 789;
        r8 = series(r1, r2);
        r9 = parallel(r3, r4);
        r10 = series(parallel(r6, r7), r5);
        i2= 12000 / parallel_three(r8, r9, r10);
                "When r1=100, r2=200, r3=300, r4=400, r5=500, r6=600, r7=700.\n"
                "i1= %.1fmA\n\n"
                "When r1=123, r2=234, r3=345, r4=456, r5=567, r6=678, r7=789.\n"
                "i2= %.1fmA\n\n"
        getchar();
}
```

Exercise 5: Random numbers

Task_A: Follow the instructions in Week 6 Lab manual and past your screen short of your result here.

Task_B: Please attach your source code here.

```c
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
float getRand() {
        return rand() / (RAND_MAX + 1.0);
}
int rollDie(int a) {
        return getRand()*a+1 ;
}
int main() {
        srand(time(NULL));
        getRand();
        int value = 0;
        value = rollDie(6);
            "6-sided die: %i\n"
        value = rollDie(20);
            "20-sided die: %i\n"
        getchar();
}
```