ASSESSMENT 2

Topic; Program for Ohms Law

#include

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int main()

{

char ch;

float voltage , current , resistance , result;

printf("Ohms law calculator.\n");

printf("Please choose from following calculcations.\n");

printf("1. choose 1 to calculate the voltage.\n");

printf("2. choose 2 to calculate the current.\n");

printf("3. choose 3 to calculate the resistance.\n");

printf("Anything else to quit.\n");

scanf("%c",&ch);

switch(ch)

{

case '1' :

printf("please enter the current in amps.\n");

scanf("%f",¤t);

printf("Now enter the resistance in ohms.\n");

scanf("%f",&resistance);

result = current \* resistance;

printf("The voltage is %0.2f volts.\n",result);

break;

case '2' :

printf("please enter the voltage in volts.\n");

scanf("%f",&voltage);

printf("Now enter the resistance in ohms.\n");

scanf("%f",&resistance);

result = voltage / resistance;

printf("The current is %0.2f amps.\n",result);

break;

case '3' :

printf("please enter the voltage in volts.\n");

scanf("%f",&voltage);

printf("Now enter the current in amps.\n");

scanf("%f",¤t);

result = voltage / current;

printf("The resistance is %0.2f ohms.\n",result);

break;

default :

exit(0);

break;

}

return 0;

}