# *Mini project soft copy (CLAP4)*

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***SECTION: D2***

***BASIC UNIT CONVERTER***

Code to convert basic quantities like temperature from Fahrenheit to Celsius , currency from dollars to euro, Japanese yen, Chinese yen, mass from ounce to pounds and grams to pounds.

***CODE:***

#include <stdio.h>

int main() {

char category;

int tempChoice;

int currencyChoice;

int massChoice;

int userinputF; // User inputted Fahrenheit;

int userinputC; // User inputted Celsius;

int userinputUSDtoEuro; // User inputted for USD to EURO;

int userinputUSDtoJPY; // User inputted for USD to JPY;

int userinputUSDtoRMB; // User inputted for USD to RMB;

int userinputOunce; // User inputted for Ounce;

int userinputGram; // User inputted for Gram;

int fahrenheitToCelcius; // variable that stores the converted F->C;

int celciusToFahrenheit; // variable that stores the converted C->F;

float USDtoEURO ; // variable that stores the converted USD->EURO;

float USDtoJPY; // stores the converted USD->JPY;

float USDtoRMB; // stores the converted USD->RMB;

float ounceToPounds; // stores the converted Ounce->Pounds;

float gramsToPounds; // stores the converted Grams->Pounds;

printf("Welcome to Unit Converter! \n");

printf("Here is a list of conversation to choose from: \n");

printf("Temperature(T),Currency(C),Mass(M) \n");

printf("Please enter the letter you want to convert.\n");

scanf("%c",&category);

if(category == 'T'){

printf("Welcome to Temperature Converter! \n");

printf("Here is a list of conversations to choose from: \n");

printf("Enter 1 for Fahrenheit to Celsius. \n");

printf("Enter 2 for Celsius to Fahrenheit. \n");

scanf("%d",&tempChoice);

if(tempChoice == 1){

printf("Please enter the Fahrenheit degree: \n");

scanf("%d",&userinputF);

fahrenheitToCelcius = ((userinputF-32) \* (5.0/9.0));

printf("Celsius: %d",fahrenheitToCelcius);

}

else if(tempChoice == 2){

printf("Please enter the Celsius degree: \n");

scanf("%d",&userinputC);

celciusToFahrenheit = ((9.0/5.0)\*userinputC + 32);

printf("Fahrenheit: %d",celciusToFahrenheit);

}

else

printf("Please enter the correct choice. \n");

}

else if(category == 'C') {

printf("Welcome to Currency Converter! \n");

printf("Here is a list of conversations to choose from: \n");

printf("Enter 1 for USD to Euro. \n");

printf("Enter 2 for USD to JPY. \n");

printf("Enter 3 for USD to RMB. \n");

scanf("%d",&currencyChoice);

if(currencyChoice == 1){

printf("Please enter the USD amount: \n");

scanf("%d",&userinputUSDtoEuro);

USDtoEURO = userinputUSDtoEuro \* 0.87;

printf("Euro: %.2f",USDtoEURO); // %.2f = rounds the float to only 2 decimal places;

}

else if(currencyChoice == 2){

printf("Please enter the USD amount: \n");

scanf("%d",&userinputUSDtoJPY);

USDtoJPY = userinputUSDtoJPY \* 111.09;

printf("JPY: %.2f",USDtoJPY);

}

else if(currencyChoice == 3) {

printf("Please enter the USD amount: \n");

scanf("%d",&userinputUSDtoRMB);

USDtoRMB = userinputUSDtoRMB \* 6.82;

printf("RMB: %.2f",USDtoRMB);

}

else

printf("Please enter correct choice. \n");

}

else if(category == 'M'){

printf("Welcome to Mass Converter! \n");

printf("Here is a list of conversations to choose from: \n");

printf("Enter 1 for ounces to pounds. \n");

printf("Enter 2 for gram to pounds. \n");

scanf("%d",&massChoice);

if(massChoice == 1){

printf("Please enter the ounce amount: \n");

scanf("%d",&userinputOunce);

ounceToPounds = userinputOunce \* 0.0625;

printf("Pounds: %.2f",ounceToPounds);

}

else if(massChoice == 2) {

printf("Please enter the gram amount: \n");

scanf("%d",&userinputGram);

gramsToPounds = userinputGram \* 0.00220462;

printf("Pounds: %.2f",gramsToPounds);

}

else

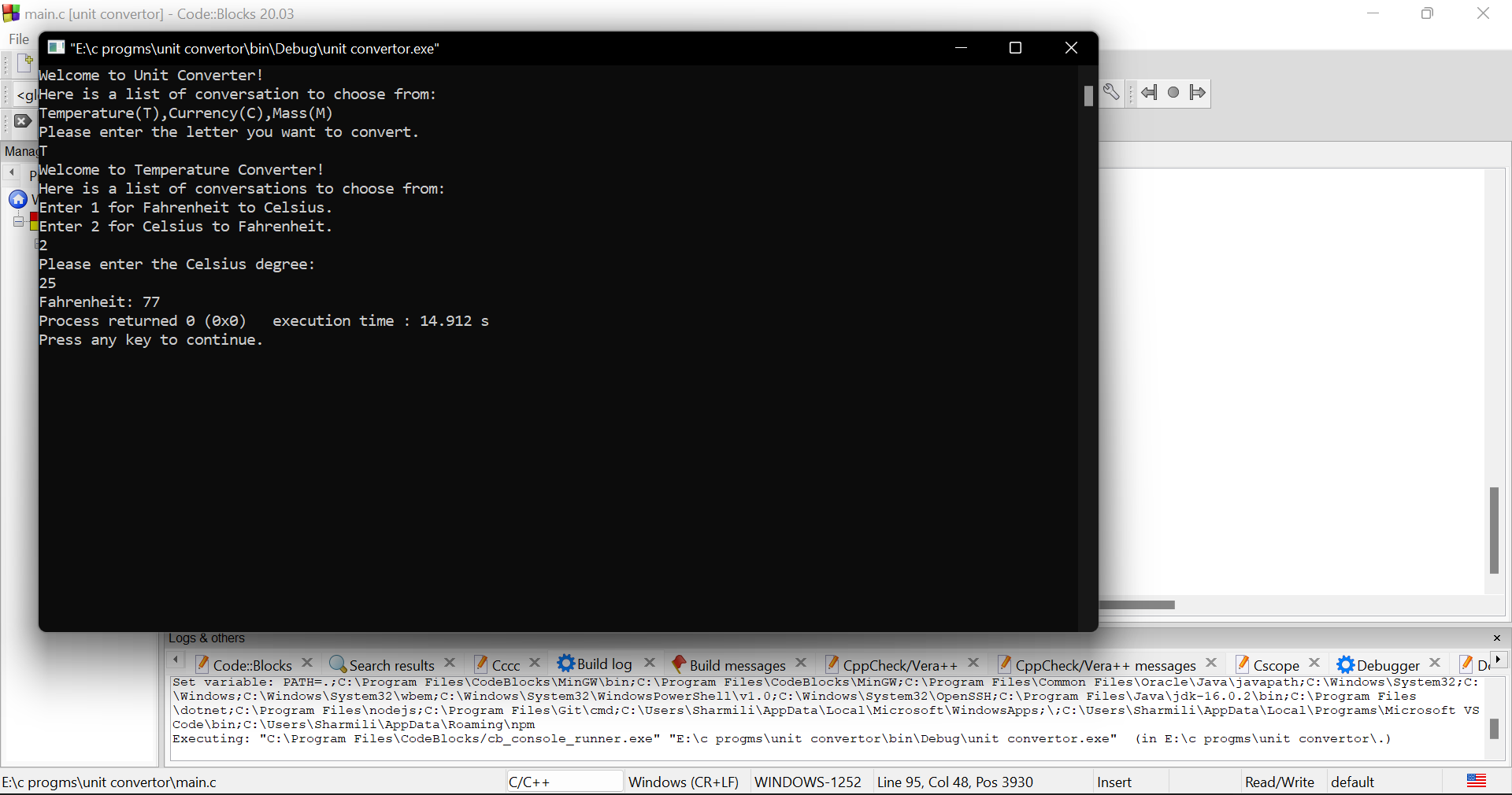
printf("Please enter the correct choice. \n");

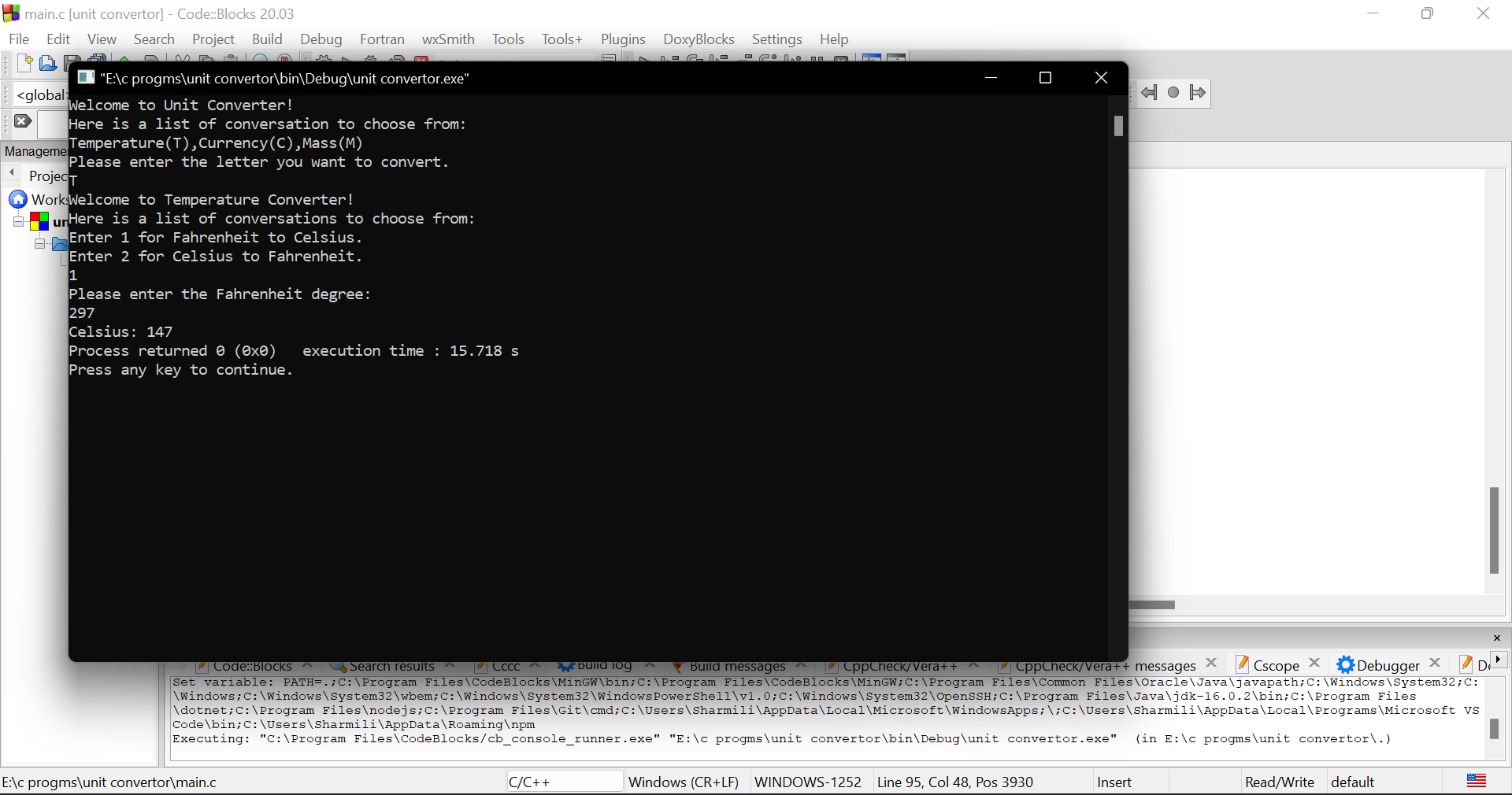
}

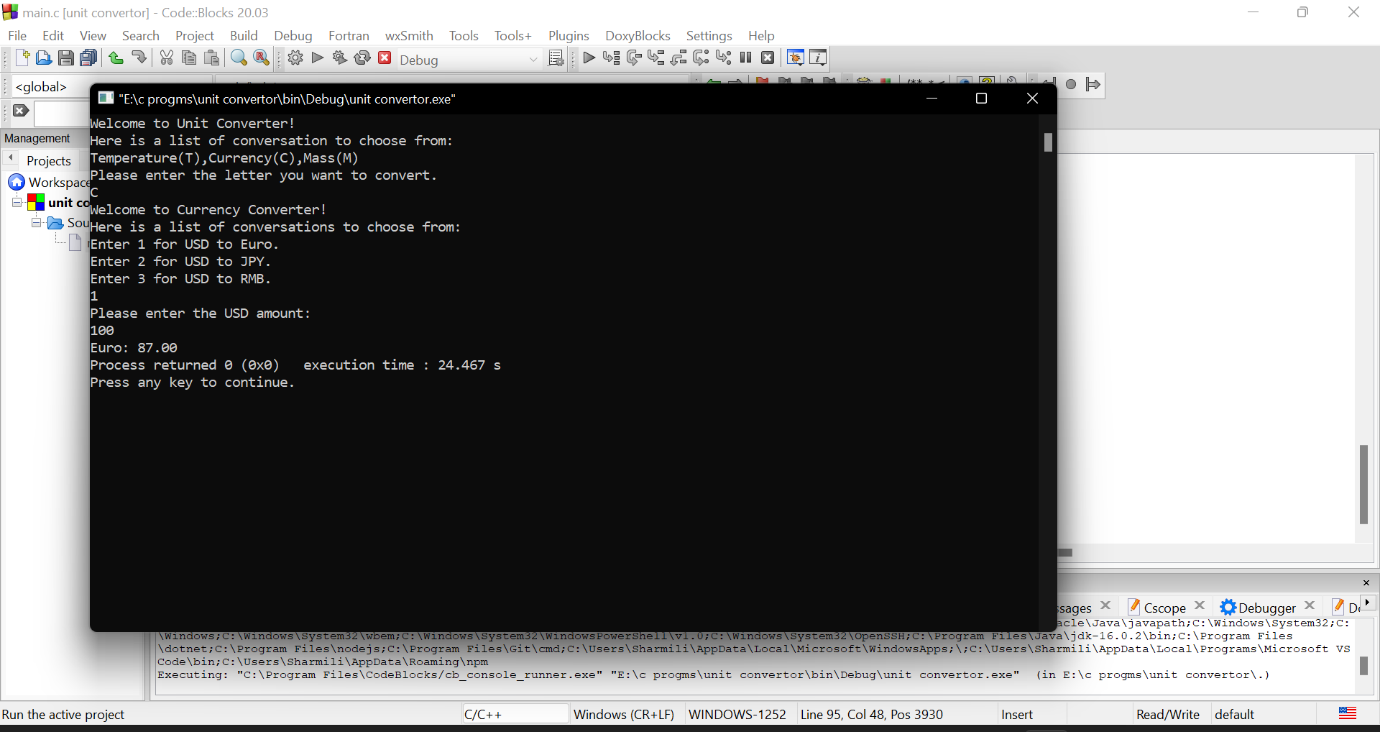
return 0;

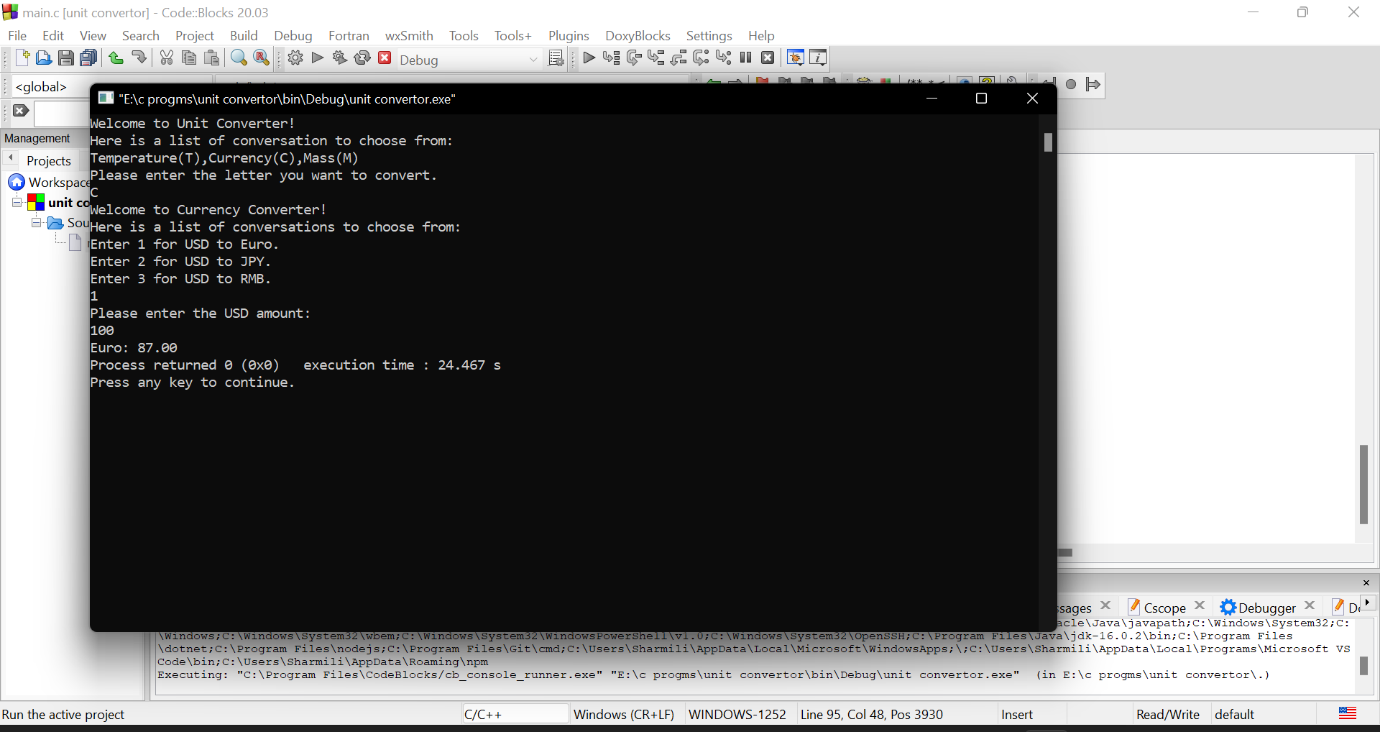
}

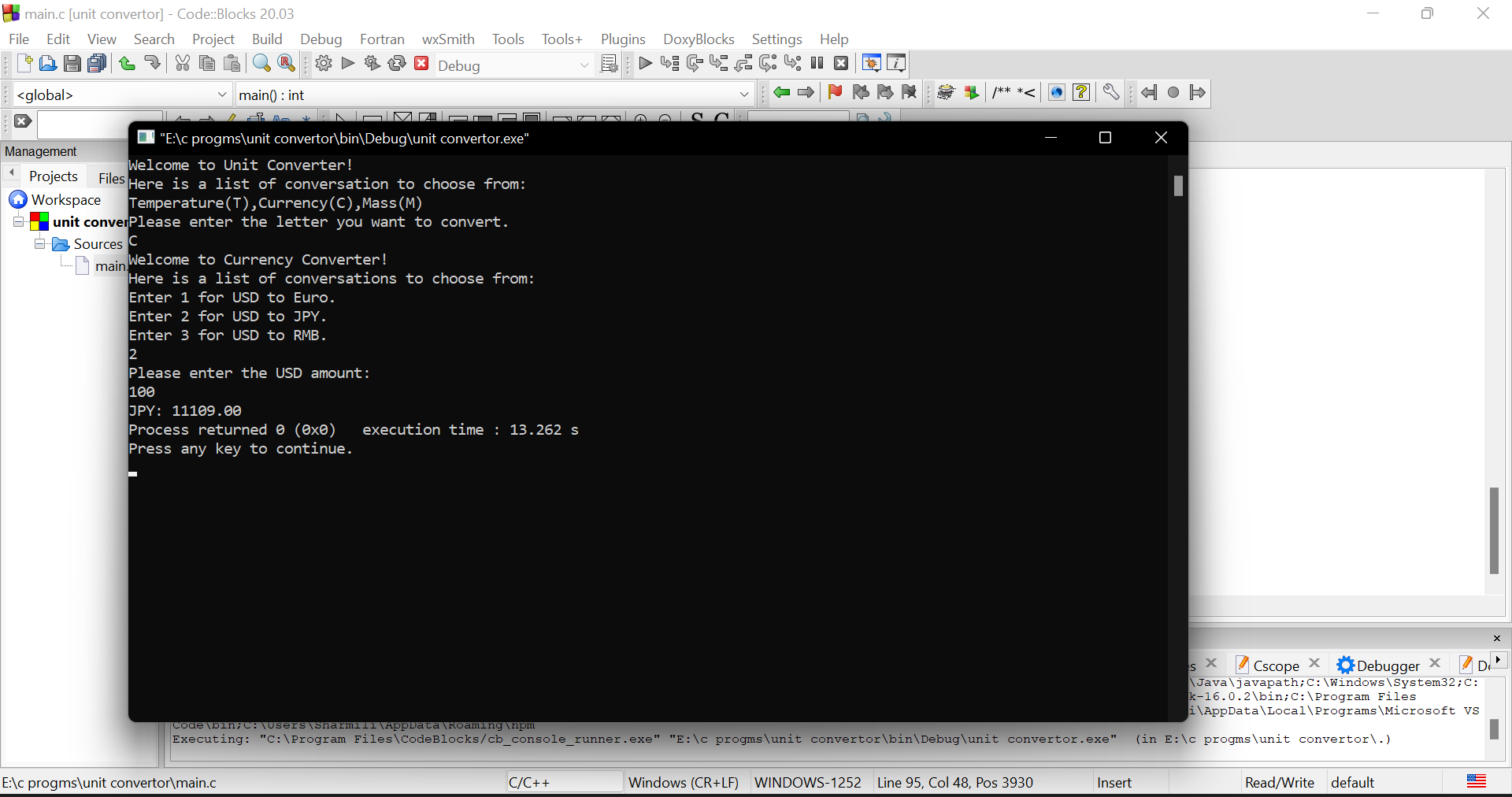
***OUTPUT:***

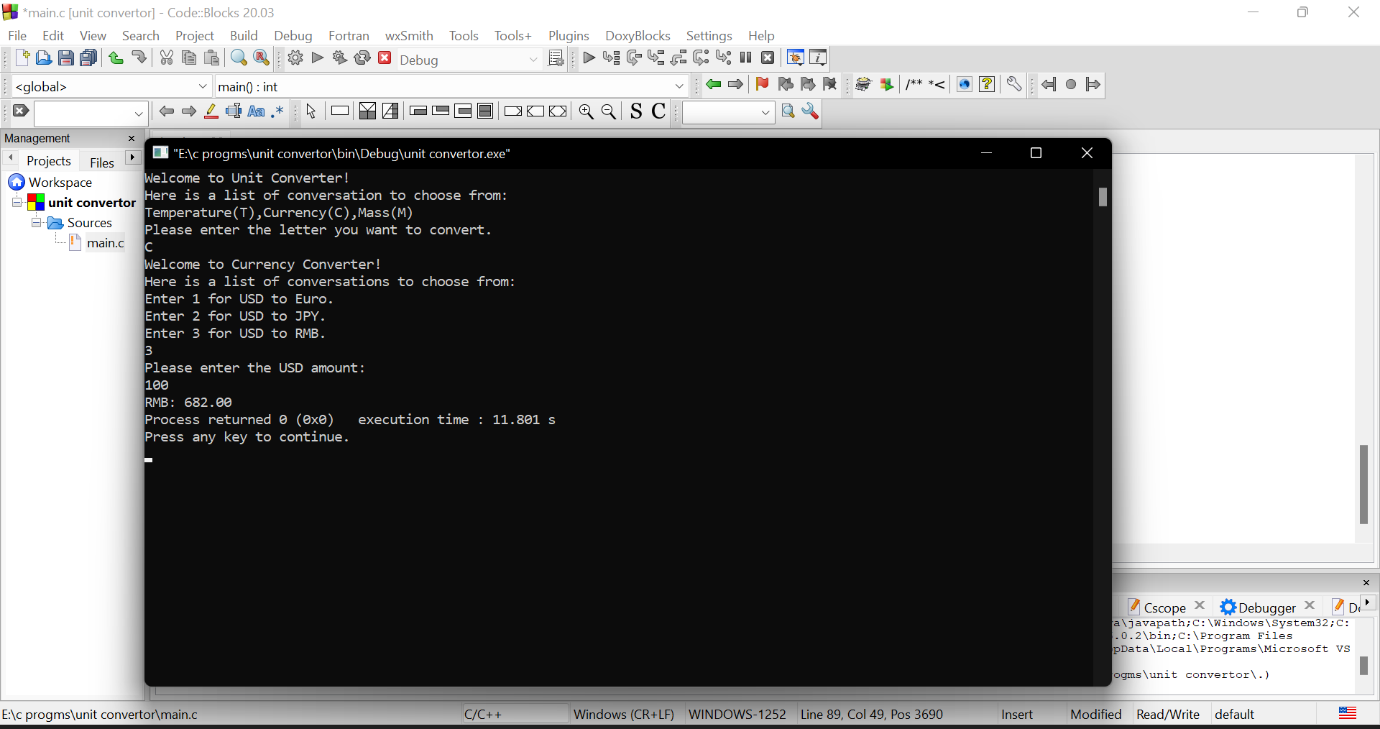
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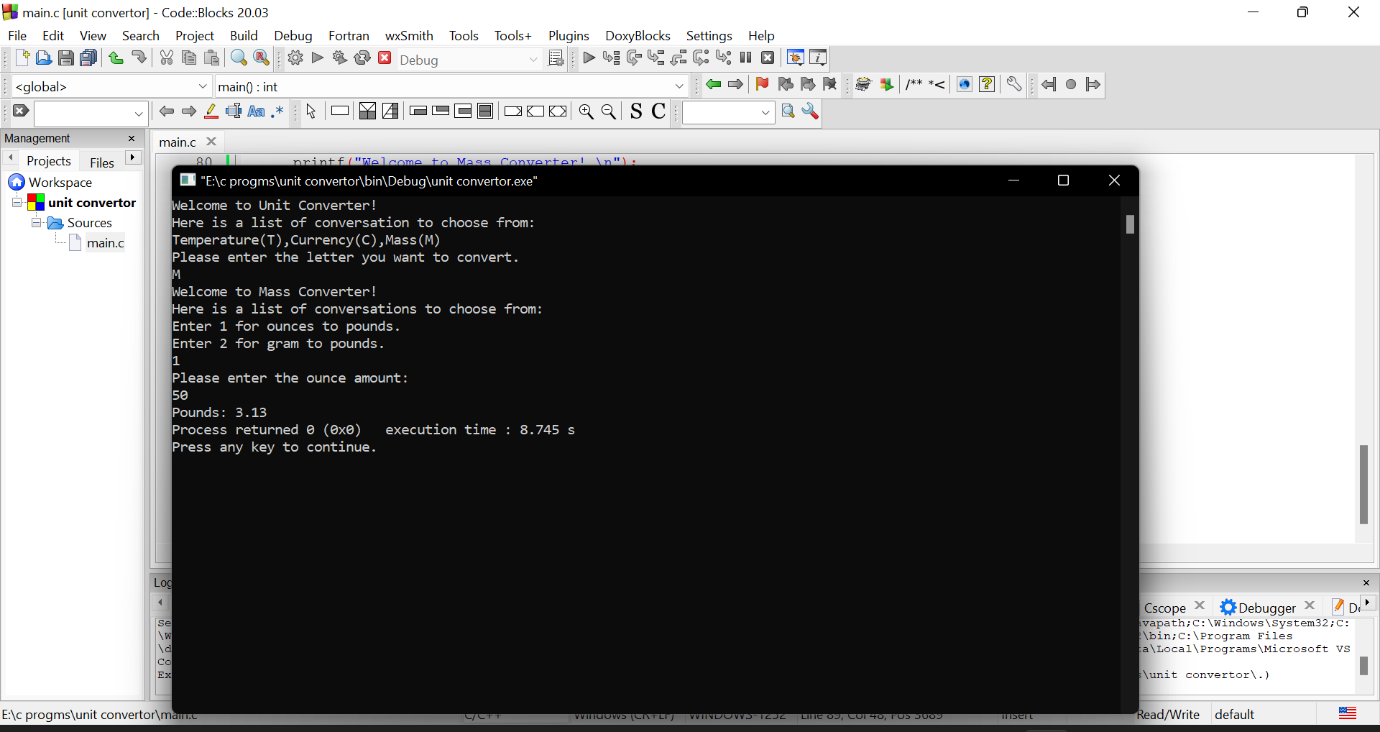
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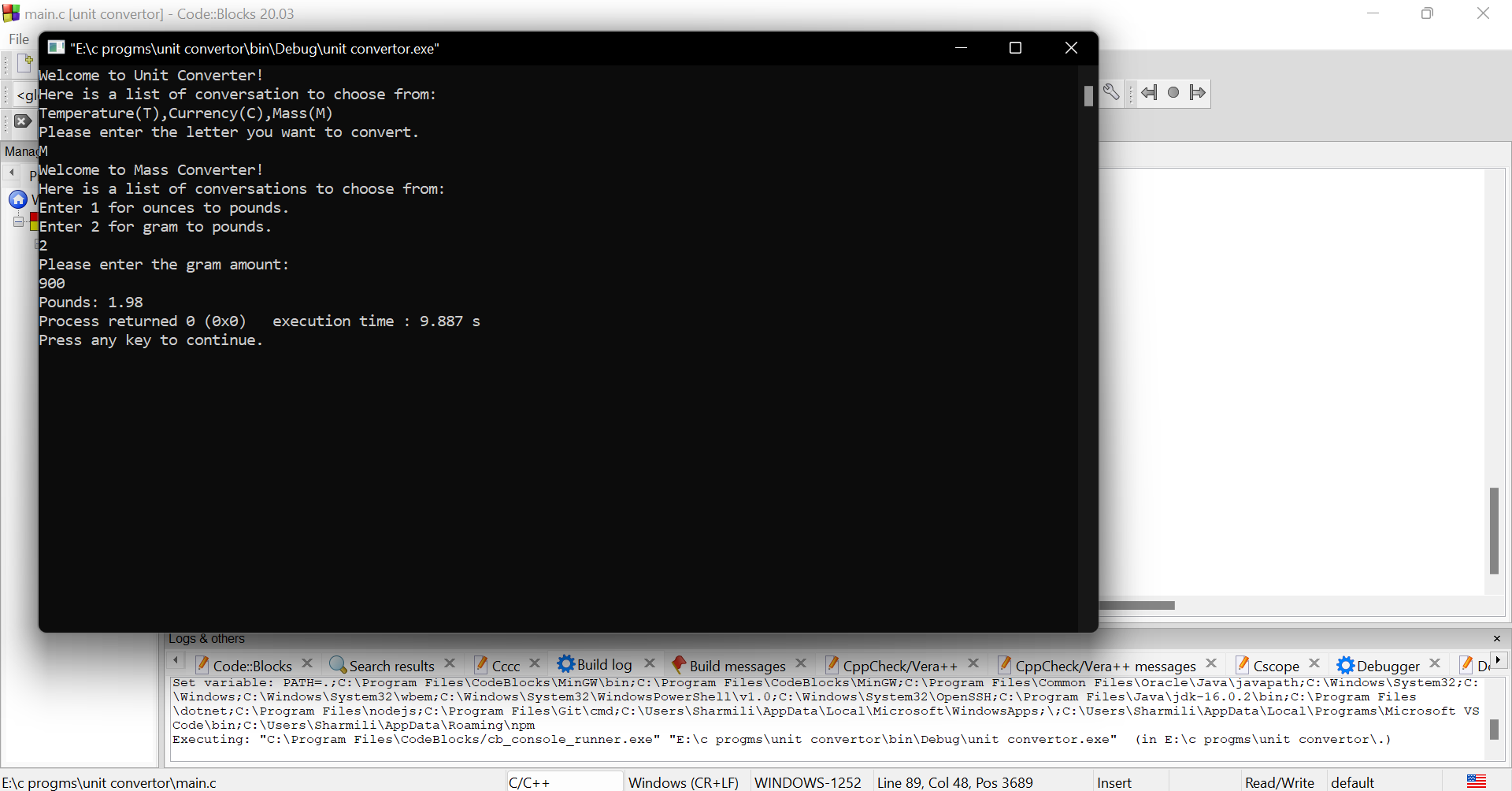
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