

```

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 fahrenheitToCelsius; // variable that stores the converted F->C;
    int celsiusToFahrenheit; // 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);
            fahrenheitToCelsius = ((userInputF-32) * (5.0/9.0));
            printf("Celsius: %d",fahrenheitToCelsius);
        }
        else if(tempChoice == 2){
            printf("Please enter the Celsius degree: \n");
            scanf("%d",&userInputC);
            celsiusToFahrenheit = ((9.0/5.0)*userInputC + 32);
            printf("Fahrenheit: %d",celsiusToFahrenheit);
        }
        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;
}
```