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C MINI PROJECT – UNIT CONVERTER

```c
#include <stdio.h>
int main() {
  char category;
  int tempChoice;
  int currencyChoice;
  int massChoice;
  int userinputF; // User inputted Fahreinheit;
  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 ; // varaible 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 vonerted 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);
```

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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("Celcius: %d",fahrenheitToCelcius);

    }
    else if(tempChoice == 2){

      printf("Please enter the Celcius 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");
```

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        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);

    }
```

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    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;

}
```