

# ***conversion calculator***

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**SEC:D2**

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```
#include <stdio.h>
```

```
int main() {
```

```
    char category;
```

```
    int tempChoice;
```

```
    int currencyChoice;
```

```
    int massChoice;
```

```
    int userInputF;
```

```
    int userInputC;
```

```
    int userInputINRtoUSD;
```

```
    int userInputINRtoJPY;
```

```
    int userInputINRtoEURO;
```

```
    int userInputKg;
```

```
    int userInputGram;
```

```
    int fahrenheitToCelcius;
```

```
    int celciusToFahrenheit;
```

```
    float INRtoUSD ;
```

```
    float INRtoJPY;
```

```
    float INRtoEURO;
```

```
    float KgToPounds;
```

```
    float gramsToPounds;
```

```

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("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 INR to USD. \n");
```

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

```
    printf("Enter 3 for INR to EURO. \n");
```

```
    scanf("%d",&currencyChoice);
```

```
    if(currencyChoice == 1){
```

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

```
        scanf("%d",&userinputINRtoUSD);
```

```
        INRtoUSD = userinputINRtoUSD * 0.013;
```

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

```
    }
```

```
    else if(currencyChoice == 2){
```

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

```
        scanf("%d",&userinputINRtoJPY);
```

```
        INRtoJPY = userinputINRtoJPY * 1.73;
```

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

```
    }
```

```
    else if(currencyChoice == 3) {
```

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

```
        scanf("%d",&userinputINRtoEURO);
```

```
        INRtoEURO = userinputINRtoEURO * 0.012;
```

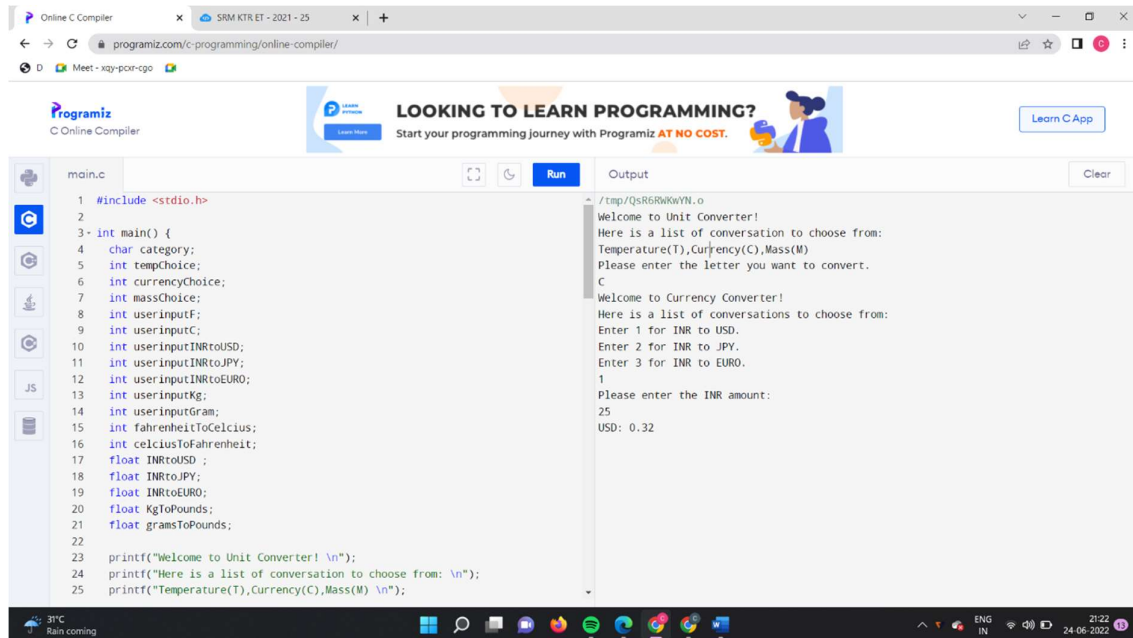
```
        printf("EURO: %.2f",INRtoEURO);
```

```
}  
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 Kg to pounds. \n");  
    printf("Enter 2 for gram to pounds. \n");  
    scanf("%d",&massChoice);  
    if(massChoice == 1){  
        printf("Please enter the Kg amount: \n");  
        scanf("%d",&userinputKg);  
        KgToPounds = userinputKg * 2.205;  
        printf("Pounds: %.2f",KgToPounds);  
    }  
    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;
```

}

## Sample input and output

### Case -1



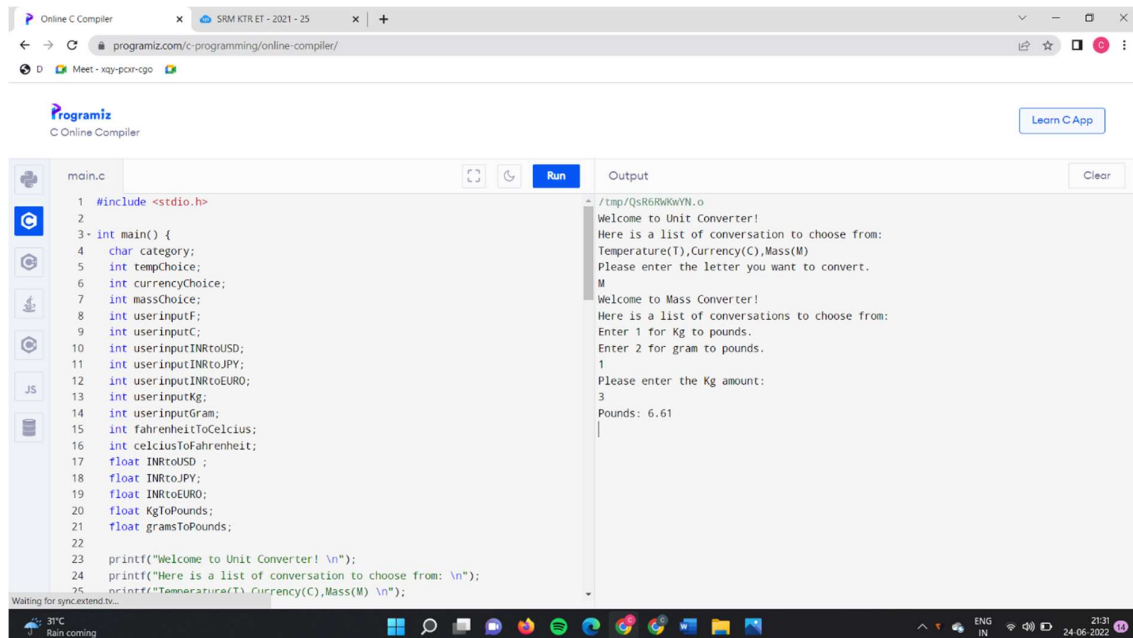
The screenshot shows the Programiz Online C Compiler interface. The code editor on the left contains a C program for a unit converter. The output window on the right shows the program's execution results.

```
main.c
1 #include <stdio.h>
2
3 int main() {
4     char category;
5     int tempChoice;
6     int currencyChoice;
7     int massChoice;
8     int userInputF;
9     int userInputC;
10    int userInputINRtoUSD;
11    int userInputINRtoJPY;
12    int userInputINRtoEUR;
13    int userInputKg;
14    int userInputGram;
15    int fahrenheitToCelsius;
16    int celsiusToFahrenheit;
17    float INRtoUSD;
18    float INRtoJPY;
19    float INRtoEUR;
20    float KgToPounds;
21    float gramsToPounds;
22
23    printf("Welcome to Unit Converter! \n");
24    printf("Here is a list of conversation to choose from: \n");
25    printf("Temperature(T),Currency(C),Mass(M) \n");
```

Output

```
/tmp/QsR6R0w0YN.o
Welcome to Unit Converter!
Here is a list of conversation to choose from:
Temperature(T),Currency(C),Mass(M)
Please enter the letter you want to convert.
C
Welcome to Currency Converter!
Here is a list of conversations to choose from:
Enter 1 for INR to USD.
Enter 2 for INR to JPY.
Enter 3 for INR to EURO.
1
Please enter the INR amount:
25
USD: 0.32
```

### Case-2



The screenshot shows the Programiz Online C Compiler interface. The code editor on the left contains the same C program as in Case 1. The output window on the right shows the program's execution results for Case 2.

```
main.c
1 #include <stdio.h>
2
3 int main() {
4     char category;
5     int tempChoice;
6     int currencyChoice;
7     int massChoice;
8     int userInputF;
9     int userInputC;
10    int userInputINRtoUSD;
11    int userInputINRtoJPY;
12    int userInputINRtoEUR;
13    int userInputKg;
14    int userInputGram;
15    int fahrenheitToCelsius;
16    int celsiusToFahrenheit;
17    float INRtoUSD;
18    float INRtoJPY;
19    float INRtoEUR;
20    float KgToPounds;
21    float gramsToPounds;
22
23    printf("Welcome to Unit Converter! \n");
24    printf("Here is a list of conversation to choose from: \n");
25    printf("Temperature(T),Currency(C),Mass(M) \n");
```

Output

```
/tmp/QsR6R0w0YN.o
Welcome to Unit Converter!
Here is a list of conversation to choose from:
Temperature(T),Currency(C),Mass(M)
Please enter the letter you want to convert.
M
Welcome to Mass Converter!
Here is a list of conversations to choose from:
Enter 1 for Kg to pounds.
Enter 2 for gram to pounds.
1
Please enter the Kg amount:
3
Pounds: 6.61
```

## Case-3

Online C Compiler

SRM KTR ET - 2021 - 25

normal body temperature - Google

programiz.com/c-programming/online-compiler/

Meet - xyz-pqr-ghi

Programiz C Online Compiler

IBM Tap into the 68% of data that goes unanalysed

Learn How

Learn C App

main.c

```
1 #include <stdio.h>
2
3 int main() {
4     char category;
5     int tempChoice;
6     int currencyChoice;
7     int massChoice;
8     int userInputF;
9     int userInputC;
10    int userInputINRtoUSD;
11    int userInputINRtoJPY;
12    int userInputINRtoEURO;
13    int userInputKg;
14    int userInputGram;
15    int fahrenheitToCelcius;
16    int celciusToFahrenheit;
17    float INRtoUSD;
18    float INRtoJPY;
19    float INRtoEURO;
20    float KgToPounds;
21    float gramsToPounds;
22
23    printf("Welcome to Unit Converter! \n");
24    printf("Here is a list of conversation to choose from: \n");
25    printf("Temperature(T),Currency(C),Mass(M) \n");
```

Run

Output

Clear

```
/tmp/QsR6RdKwYN.o
Welcome to Unit Converter!
Here is a list of conversation to choose from:
Temperature(T),Currency(C),Mass(M)
Please enter the letter you want to convert.
T
Welcome to Temperature Converter!
Here is a list of conversations to choose from:
Enter 1 for Fahrenheit to Celcius.
Enter 2 for Celcius to Fahrenheit.
2
Please enter the Celcius degree:
38
Fahrenheit: 100
```

31°C Rain coming

21:53 24-06-2022