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");
```

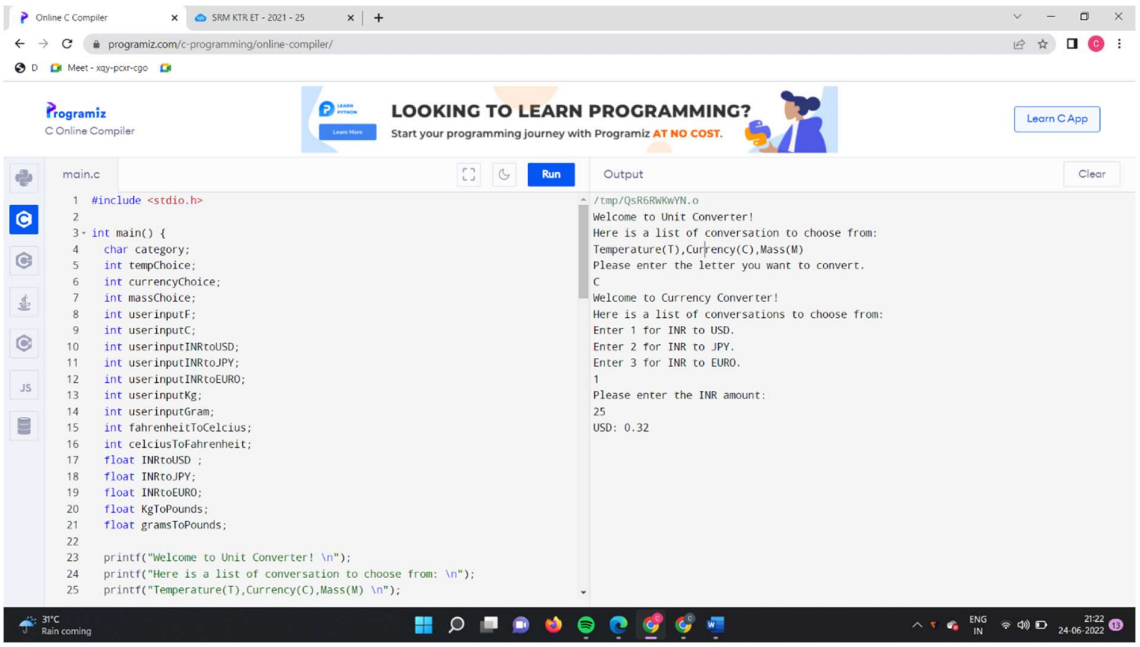
```
}


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;
```

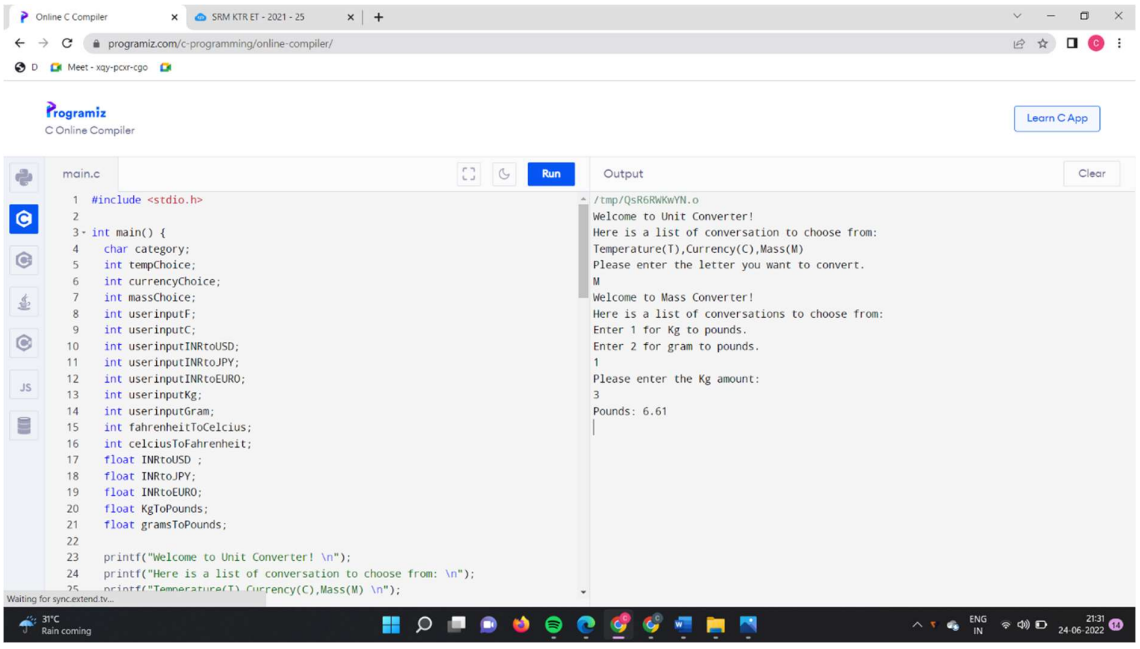
}

Sample input and output

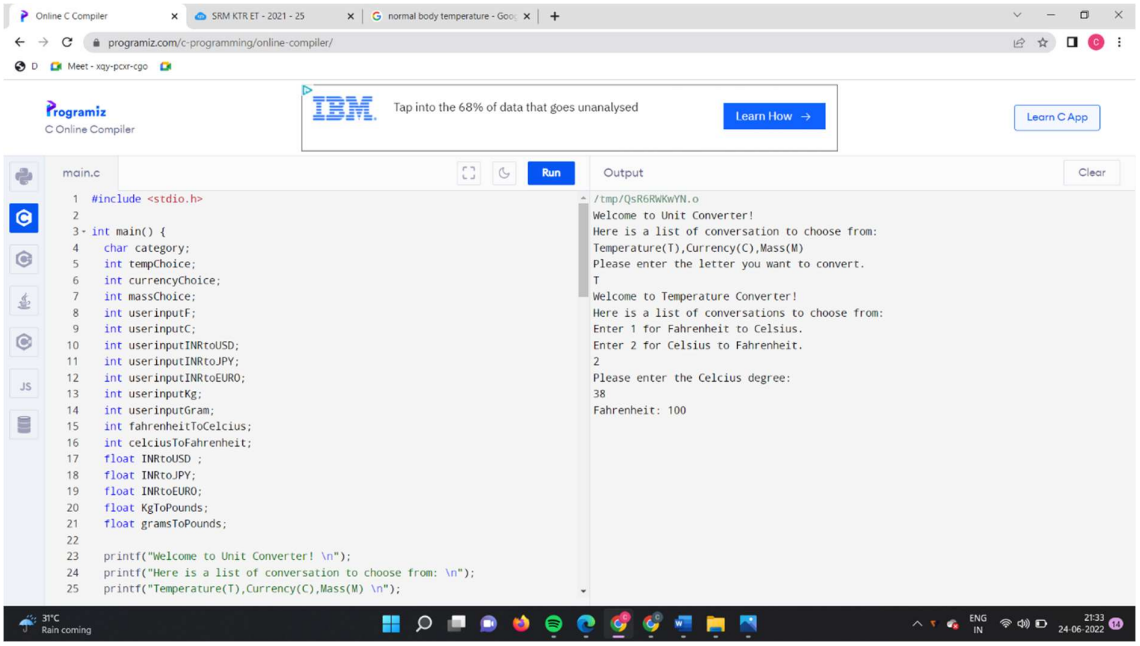
Case -1



Case-2



Case-3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main.c
Run
Output
Clear
#include <stdio.h>
int main() {
char category;
int tempChoice;
int currencyChoice;
int massChoice;
int userinputF;
int userinputC;
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int userinputINRtoJPY;
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int userinputGram;
int fahrenheitToCelcius;
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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");
/tmp/QsR6RWKwYN.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 Celsius.
Enter 2 for Celsius to Fahrenheit.
2
Please enter the Celcius degree:
38
Fahrenheit: 100
31°C
Rain coming
ENG
IN
21:33
24-06-2022