```
#include<stdio.h>
int main(){
         main(){
char continue_choice;
do {
  printf("1: Calculating Fuel Economy\n");
  printf("2: Calculating Distance Traveled\n");
  printf("3: Revised Fuel Economy Calculation\n");
  printf("Your choice : ");
         int function;
scanf("%d", &function);
switch(function) {
   case (1):[
                     int minutestravel;
float speed;
float gasoline;
float result;
printf("Enter the number of minutes the car has traveled : \n");
scanf("%d", &minutestravel);
printf("Enter the speed of the car\n");
scanf("%f", &speed);
printf("Enter the gasoline consumed\n");
scanf("%f", &gasoline);
result = (minutestravel/60.0 * speed)/gasoline;
printf("\nYour car averaged %.2f miles per gallon", result);
break:
                       printt( \ntour car averaged %.zt miles per gallon , result);
                break;
case (2):{
                       float pi = 3.14;
float radius;
                       int revolutions;
                       int revolutions;
printf("Enter the radius : \n");
scanf("%f", &radius);
printf("Enter the revolutions of the tires : \n");
scanf("%d", &revolutions);
float circumference = 2 * pi * radius;
float miles - revolutions * circumference / 63560.0;
printf("Your car traveled : %.2f miles \n", miles);
                       break;
                case (3): {
                       float bankinh, xang, fuelEfficiency;
                      rloat bankinn, xang, rueltrictency;
int sovong;
printf("Enter the radius of the car's tires: \n ");
scanf("%f", &bankinh);
printf("The number of revolutions the car's tires: \n");
scanf("%d", &sovong);
printf("The amount of gas, in gallons, the car uses: \n");
scanf("%f". &xano):
                        case (3): {
                                float bankinh, xang, fuelEfficiency;
                                 int sovong;
                                 printf("Enter the radius of the car's tires: \n ");
                                 scanf("%f", &bankinh);
                                 printf("The number of revolutions the car's tires: \n");
                                 scanf("%d", &sovong);
                                printf("The amount of gas, in gallons, the car uses: \n");
                                 scanf("%f", &xang);
                                 fuelEfficiency = ((2 * 3.14 * bankinh * sovong)/63360.0)/xang;
                                 printf("Revised fuel efficiency: %.2f miles per gallon\n", fuelEfficiency);
                                break;
                       default:
                                printf("Invalid choice.\n");
                printf("Tiep tuc hay khong: (Y/N)? ");
              | scanf(" %c", &continue_choice);
| while (continue_choice == 'Y' || continue_choice == 'y');
              return 0:
 L<sub>}</sub>
```



```
C:\Users\thaip\Documents\fu × + ~
1: Calculating Fuel Economy
2: Calculating Distance Traveled
3: Revised Fuel Economy Calculation
Your choice : 3
Enter the radius of the car's tires:
15
The number of revolutions the car's tires:
3151
The amount of gas, in gallons, the car uses:
0.11
Revised fuel efficiency: 42.59 miles per gallon
Tiep tuc hay khong (Y/N)?
 C:\Users\thaip\Documents\fu × + ~
1: Calculating Fuel Economy
2: Calculating Distance Traveled
3: Revised Fuel Economy Calculation
Your choice : 3
Enter the radius of the car's tires:
The amount of gas, in gallons, the car uses:
0.11
Revised fuel efficiency: 42.59 miles per gallon
Tiep tuc hay khong (Y/N)? y
1: Calculating Fuel Economy
2: Calculating Distance Traveled
3: Revised Fuel Economy Calculation
Your choice : 1
Enter the number of minutes the car has traveled :
Enter the speed of the car
Enter the gasoline consumed
Your car averaged 33.33 miles per gallon Tiep tuc hay khong (Y/N)? \mid
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