Text

Description automatically generated

Problem 6)

typedef struct {

int id;

char brand[50];

float miles[10];

} car;

int main( ) {

struct car car1;

car1.id = 1;

car1.brand = 0;

for (int i = 0; i <= 9; ++i){

car1.miles[i] = 0.0;

}

}

Problem7)

typedef struct {

int id;

char brand[50];

float miles[10];

} car;

int main( ) {

struct car car1;

car1.id = 1;

car1.brand = 0;

for (int i = 0; i <= 9; ++i){

car1.miles[i] = 0.0;

}

printf("Enter the brand of the car:");

scanf("%s",car1.brand);

}

Problem 8)

void calcmilescar(car car){

for (int i = 0; i < 9; ++i){

car.miles[i+1] = car.miles[i]\*2;

}

}

or

void calcmilesref(car\*car){

for (int i = 0; i < 9; ++i){

car->miles[i+1] = car->miles[i]\*2;

}

}

Problem 9)

#include <stdio.h>

#include <string.h>

#define MAXLENGTH 100

int main(){

int len;

char str[MAXLENGTH];

int mul;

scanf("%s", str);

len = strlen(str);

scanf("%d", &mul);

while(!(mul >= 1 && mul<=8)){

printf("Enter a shift between 1 and 8");

scanf("%d", &mul);

}

for (int i = 0; i < len; ++i) {

str[i]= str[i]+mul;

}

printf("The result is:%s", str);

return(0);

}