#include <stdio.h>

#include <string>

struct CarDetails {

char make[20];

char model[20];

int year;

int price;

float mileage;

};

int main(){

int size;

int choice;

char search[20];

printf("how many cars you want to enter: ");

scanf("%d", &size);

struct CarDetails CD[size];

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

printf("Enter details for car %d\n", i+1);

printf("make: ");

scanf(" %s", &CD[i].make);

printf("model: ");

scanf(" %s", &CD[i].model);

printf("year: ");

scanf(" %d", &CD[i].year);

printf("price: ");

scanf(" %d", &CD[i].price);

printf("mileage: ");

scanf(" %f", &CD[i].mileage);

}

printf("Avaible cars\n");

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

printf("Car %d\n", i+1);

printf("make: %s\n", CD[i].make);

printf("model: %s\n", CD[i].model);

printf("year: %d\n", CD[i].year);

printf("price: %d\n", CD[i].price);

printf("mileage: %f\n", CD[i].mileage);

}

printf("Serach by\n 1-make\n 2-model");

scanf("%d", &choice);

switch(choice) {

case 1:

printf("Enter make: ");

scanf(" %s", &search);

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

if(strcmp(search,CD[i].make) == 0) {

printf("Car %d\n", i+1);

printf("make: %s\n", CD[i].make);

printf("model: %s\n", CD[i].model);

printf("year: %d\n", CD[i].year);

printf("price: %d\n", CD[i].price);

printf("mileage: %f\n", CD[i].mileage);

}

}

break;

case 2:

printf("Enter model: ");

scanf(" %s", &search);

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

if(strcmp(search,CD[i].model) == 0) {

printf("Car %d", i+1);

printf("make: %s\n", CD[i].make);

printf("model: %s\n", CD[i].model);

printf("year: %d\n", CD[i].year);

printf("price: %d\n", CD[i].price);

printf("mileage: %f\n", CD[i].mileage);

}

}

}

}

#include <stdio.h>

#define mTOkm 0.001

void conversion(float meter) {

static int count = 0;

float convert = meter \* mTOkm;

printf("%.3f into km is: %.3f\n",meter, convert);

count++;

printf("Funtion is called %d times\n", count);

}

int main() {

int count = 0;

float distance1=54.5, distance2=66.8, distance3=100;

conversion(distance1);

conversion(distance2);

conversion(distance3);

}

#include <stdio.h>

int search(int arr[10],int size, int target, int index) {

if (target == arr[index]) {

return index;

}

else {

return search(arr,size,target,index+1);

}

}

int main() {

int arr[] = {1,2,3,4,5,6,7,8,9,0};

int size = 10;

int target = 4;

int index = 0;

int targetIndex = search(arr,size,target,index);

printf("%d", targetIndex);

}

#include <stdio.h>

struct TravelPackages{

char name[20],destination[20];

int cost,seats,durationInDays;

};

void displayPackages(struct TravelPackages TP) {

printf("Package-Name: %s\n", TP.name);

printf("Package-destination: %s\n", TP.destination);

printf("Package-cost: %d\n", TP.cost);

printf("Package-seats: %d\n", TP.seats);

printf("Package-duration: %d\n", TP.durationInDays);

}

int main() {

int choice;

struct TravelPackages TP1 = {"basic", "hyderabad",10000, 9, 2};

struct TravelPackages TP2 = {"basic", "hyderabad",10000, 9, 2};

struct TravelPackages TP3 = {"basic", "hyderabad",10000, 9, 2};

// printf("Select:\n 1-Display Pakcage\n 2-Book Seat\n");

// scanf("%d", &choice);

displayPackages(TP1);

displayPackages(TP2);

displayPackages(TP3);

printf("\nSelect Package e.g !,2,3...");

scanf("%d", &choice);

switch(choice) {

case 1:

TP1.seats = TP1.seats - 1;

displayPackages(TP1);

}

}