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ROLLNO FA14-BSSE-007

SECTION BATCH#3 A

COMSATS INSTITIUTE OF INFORMATION TECHNOLOGY SAHIWAL.

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#include<iostream> //header files

#include<conio.h>

using namespace std;

const int MAX=10; //size

class carparking //class name

{

private: //data member

int a[MAX]; //for civic

int b[MAX]; //for city

int c[MAX]; //for accord

int top;

int s,e;

public: //memberr function

carparking() //constructer

{

s=-1;

e=-1;

}

bool is\_ful() //bool option

{

if(e==MAX)

return true;

else

return false;

}

bool is\_empty()

{

if(e==-1)

return true;

else

return false;

}

////////////STATUS FUNCTION///////////////////////////////////

void status()

{

if(e==9)

cout<<"No space in this floor"<<endl;

else

cout<<"Welcome space is available at index=\n"<<e+1<<endl;

}

////////////CIVIC CAR FUNCTION///////////////////////////////////

void civic(int y)

{

if(is\_ful())

{

cout<<"The space is full"<<endl;

}

else

a[++e]=y;

cout<<"The CAR NO="<<y<<" is entered in the queue at index"<<"["<<e<<"]"<<endl;

}

////////////CITY CAR FUNCTION///////////////////////////////////

void city(int y)

{

if(is\_ful())

{

cout<<"The space is full"<<endl;

}

else

b[++e]=y;

cout<<"The CAR NO= "<<y<<" is entered in the queue at index"<<"["<<e<<"]"<<endl;

}

////////////ACCORD CAR FUNCTION///////////////////////////////////

void accord(int y)

{

if(is\_ful())

{

cout<<"The space is full"<<endl;

}

else

c[++e]=y;

cout<<"The CAR NO= "<<y<<" is entered in the queue at index"<<"["<<e<<"]"<<endl;

}

};

/////////////////WELCOME IN MAIN FUNCTION/////////////////////////

int main() //main function

{

carparking a,b,c; //objects

char type;

manu: //goto received

cout<<"\n\aWelcome In Car Parking Garage\n";

cout<<"\n\t\t\tselect your option\n";

cout<<"\n";

cout<<"\nEnter Your Car Type\n";

cout<<"\nCivic: A"

<<"\nCity: B"

<<"\nAccord: C"

<<"\nExit: E\n";

cin>>type;

system ("cls");

back:

////////////SWITCH STATEMENTS AND CASE///////////////////////////////////

switch(type)

{

case 'A': //1st case

int ch;

cout<<"\nStatus of A floor is\n";

a.status();

for(int i=0;i<MAX;i++)

{ //c.status();

cout<<"Enter '1' to next process";

cin>>ch;

if(ch==1)

a.civic(ch);

cout<<"\nYour parking floor is 'A'\n";

goto manu;

}

break;

/////////////////////////////////////////////////

case 'B': //2nd case

int chb;

cout<<"\nStatus of B floor is\n";

b.status();

for(int j=0;j<MAX;j++)

{ //c.status();

cout<<"Enter '1' to next process";

cin>>chb;

if(chb==1)

b.city(chb);

cout<<"\nYour parking floor is 'B'\n";

goto manu;

}

break;

/////////////////////////////////////////////////////

case 'C': //3rd case

int chc;

cout<<"\nStatus of C floor is\n";

c.status();

for(int k=0;k<MAX;k++)

{

cout<<"Enter '1' to next process";

cin>>chc;

if(chc==1)

c.accord(chc);

cout<<"\nYour parking floor is 'C'\n";

goto manu;

}

break;

////////////////////////////////////////////////////

default: // default case if all wrong then this execute

cout<<"\nYou enter the wrong choice\n";

cout<<"Do you want try again enter(y/n)";

char again;

cin>>again;

if(again=='y')

{

goto manu;

////////////////////////////////////////////////////

case 'n': //exit case

exit(0);

break;

}

break;

case 'E':

exit(0);

break;

}

getchar();

getchar();

return 0;

} ///end of progarm

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