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Class :-cse-03

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#include <stdio.h>
#include <stdlib.h>
char* details()
{
int c=0;
static char o[2],deat[9];
while(c==0)
{
c=1;
printf("please enter the user details\n");
scanf("%s",deat);
if(deat[0]=='2')
{
printf("you have a 2 wheeler\n");
}
else if(deat[0]=='4')
{
printf("you have a 4 wheeler\n");
}
else{
c=0;
}
if(deat[1]=='y')
{
printf("you are wearing a helmet\n");
}
else if(deat[1]=='n')
{
printf("you are not wearing a helmet\n");
}
else{
c=0;
}
if(deat[2]=='g' || deat[2]=='G')
{
printf("you are a girl\n");
}
else if(deat[2]=='b' || deat[2]=='B')
{
printf("you are a boy\n");
}
}
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else{
c=0;
}
printf("the first letter in your name is %c \n",deat[3]);
if(((deat[4]-'0')*10+deat[5]-'0')>=
18&&((deat[4]-'0')*10+deat[5]-'0')<=99)
{
printf("your age is %c%c \n",deat[4],deat[5]);
}
else{
c=0;
}
if(((deat[6]-'0')*10+deat[7]-'0')>=
0&&((deat[6]-'0')*10+deat[7]-'0')<=24)
{
printf("the time you want to park is %c%c\n",deat[6],deat[7]);
}
else{
c=0;
}
if(c==0)
{
printf("Entered details are not correct please enter again:\n");
}
else
{
printf("enter n if your information is not correct \n");
scanf("%s",o);
if(o[0]=='n')
c=0;
}
}
return deat;
}
char* login()
{
static char name[30];
char pas[30],ename[30];
int i,j,c=0,len;
int upper=0,lower=0,num=0,special=0;
while(c!=2)
{
printf("Enter the user name :\n");
scanf("%s",name);

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if(name[0]>='A' && name[0]<='Z'){
c++;
for(i=0; name[i] != '\0'; i++){
i=i;
}
if(i>5){
c++;
}
}
if(c!=2)
{
printf("Entered the user name is invalid please enter correct name :\n");
}
}
len=0;
c=0;
while(c==0)
{
printf("Enter the user password :\n");
scanf("%s",pas);
for(i=0; pas[i] != '\0'; i++){
//check for uppercase
if(pas[i]>='A' && pas[i]<='Z')
{
upper=1;

}else if(pas[i]>='a' && pas[i]<='z') { //check lower case
lower=1;
}else if(pas[i]>='0' && pas[i]<='9') { //check number
num=1;
}
else{
special=1;
}
if(i>7){
len=1;
}
}
if(upper==1&&lower==1&&num==1&&special==1&&len==1){
printf("the login is succefully \n");

c=1;
}
else

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{
printf("Entered user password is in correct please enter
again :\n");
}}
return name;
}
int printn(int num)
{
int n[5],i=0;
printf("(");
while(num != 0)
{
n[i]=num % 10;
num = num / 10;
i++;
}
for(i;i>=0;i--)
{
switch(n[i])
{
case 0:
printf("Zero ");
break;
case 1:
printf("One ");
break;
case 2:
printf("Two ");
break;
case 3:
printf("Three ");
break;
case 4:
printf("Four ");
break;
case 5:
printf("Five ");
break;
case 6:
printf("Six ");
break;
case 7:
printf("Seven ");
break;

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case 8:
printf("Eight ");
break;
case 9:
printf("Nine ");
break;
}

}

printf("\n");
return 0;
}
int cost(char *d)
{
static int sum=0;
float a,t;
float ua;
if(d[0]=='2')
{
a=(float)((d[6]-'0')*10+d[7]-'0')*25;
sum+=a;
if(a<50)
{
t=a;
}
else if(a>=50&&a<150)
{
t=a+a*0.07;
}
else
{
t=a+a*0.28;
}
if(d[0]=='2'&&d[1]=='n')
{
t=t+50;
}
printf("the total bill is %f",t);
printrn(t);
printf("enter the amount user given\n");
scanf("%f",&ua);
printf("the change is %f\n",ua-t);
printrn(ua-t);

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return sum;
}
}
int main()
{
char *name;
int a[8][12]={0};
int i,j,m=1,n,k=0,l,sum=0,r=1;
char *d;
printf("\t\twelcome to rgukt parking portal
\n\t\t_____ \n");
name=login();
while(r==1)
{
printf("your user name is %s\n",name);

printf("your encoded user name is \n");
for(i=0; name[i] != '\0'; i++){
printf("%d",name[i]+1);
}
printf("\n");
for(i=0;i<8;i++)
{
for(j=0;j<12;j++)
{
printf("%d ",a[i][j]);
}
printf("\n");
}
d=details();
if(d[0]==2&&((d[4]-'0')*10+d[5]-'0')<21)
{
printf("you are not eligible to park \n");
return 0;
}
m=1;
if(d[0]=='2')
{
for(i=0;i<8;i+=2)
{
for(j=0;j<12;j++)
{
if(a[i][j]==0)
{

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a[i][j]=1;
k++;
i=9;
m=0;
break;
}
}
}
}
else if(d[0]=='4')
{
for(i=1;i<8;i+=2)
{
for(j=11;j>=0;j--)
{
if(a[i][j]==0)
{
a[i][j]=1;
l++;
i=9;
m=0;
break;
}
}
}}
if(m==1)
{
printf("there are no slots left\n");
return 0;
}
sum=cost(d);
printf("the total no. of two wheelers parked is %d\n",k);
printf("the total no. of four wheelers parked is %d\n",l);
printf("the total no. of vehicles parked is %d\n",k+l);
printf("enter 1 if you want to logout\n");
scanf("%d",&n);
if(n==1)
{
printf("are you sure you want to logout if yes press 1 again\n");
scanf("%d",&n);
if(n==1)
{
r=0;
printf("the entire day profit is %d\n",sum);

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printf("do you want to check wheather perticular slot is full or not
if yes press 1\n");
scanf("%d",&n);
if(n==1)
{
printf("enter the row : \n");
scanf("%d",&i);
printf("enter the coloum: \n");
scanf("%d",&j);
if(i>8||j>12)
{
printf("there is no such slot \n");
}
else if(a[i-1][j-1]!=0)
{
printf("this slot is already ocupaid \n");
}
else
{
printf("this slot is free \n");
}
}
for(j=0;j<12;j++)
{
for(i=7;i>=0;i--)
{
printf("%d ",a[i][j]);
}
printf("\n");
}
}
}
return 0;
}

```