//SE 47 (Exception Handling)

#include <iostream>

#include <string.h>

using namespace std;

class data

{

int age;

string city;

double income;

char fw;

int c=0;

public:

void getage()

{

try

{

cout<<"Enter age:"<<endl;

cin>>age;

if(age<18||age>55)

throw(age);

else

c++;

}

catch(int i)

{

cout<<"Exception caught: Age should be between 18-55 years"<<endl;

}

}

void getcity()

{

try

{

cout<<"Enter the city you live in:"<<endl;

cin>>city;

if(city=="Pune"||city=="Mumbai"||city=="Bangalore"||city=="Chennai")

c++;

else

throw(city);

}

catch(string s)

{

cout<<"Exception caught: City should be either Pune, Mumbai, Bangalore or Chennai"<<endl;

}

}

void getincome()

{

try

{

cout<<"Enter monthly income:"<<endl;

cin>>income;

if(income<50000||income>100000)

throw(income);

else

c++;

}

catch(double d)

{

cout<<"Exception caught:Income should be between Rs. 50,000- Rs. 1,00,000"<<endl;

}

}

void fourw()

{

try

{

cout<<"Do you have a four wheeler? Y or N"<<endl;

cin>>fw;

if(fw=='y'||fw=='Y')

c++;

else

throw(fw);

}

catch(char w)

{

cout<<"Exception caught: 4 wheeler not present"<<endl;

}

}

void print()

{

if(c==4)

cout<<"No incorrect data provided";

}

};

int main()

{

data obj;

obj.getage();

obj.getincome();

obj.getcity();

obj.fourw();

obj.print();

return 0;

}

Enter age:

19

Enter monthly income:

20000

Exception caught:Income should be between Rs. 50,000- Rs. 1,00,000

Enter the city you live in:

Pune

Do you have a four wheeler? Y or N

n

Exception caught: 4 wheeler not present