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Crete User defined exception to check the following conditions and throw the
exception if
the criterion does not met.
a. User has age between 18 and 55
b. User stays has income between Rs. 50,000 - Rs. 1,00,000 per month
c. User stays in Pune/ Mumbai/ Bangalore / Chennai
d. User has 4-wheeler Accept age, Income, City, Vehicle from the user and check
conditions mentioned above. If any of the condition not met then throw the
exception.
#include<iostream>
                        //include header file
                        //include header file of string
#include<string.h>
using namespace std;
class try_throw
                       //class with name try_throw
 private:int age,in;
                       //declaration of variables
        char city[8],car;
        public:
        void get_age() //function to accept age of person
        {
                cout<<"\nEnter age: ";</pre>
                cin>>age;
                if(age<18 || age>55)
                throw("Invalid age..!!"); //throw if age is invalid
        }
        void get income()
                               //function to accept the income
                cout<<"\nEnter income: ";</pre>
                cin>>in;
                if(in<50000 || in>100000)
                throw("Invalid Income..!!"); //throw if income is invalid
        }
        void get_city() //accept city name
                cout<<"\nEnter city [in small letters only]: ";</pre>
                cin>>city;
if(strcmp(city, "pune")&& strcmp(city, "banglore")&& strcmp
(city, "chennai")&& strcmp(city, "mumbai"))
                throw("Person is not staying in Pune/Mumbai/Banglore/
Chennai..!!"); //throw if city is not matching with given cities
        void get vehicle()
                            //accept is the user having 4 wheeler or not
        {
                cout<<"\nEnter y if you have car else enter n: ";</pre>
                cin>>car;
                if(car=='n')
                throw(" Person should hold car..!!");
        }
        void display()
                                //display details of user
                cout<<"\nYour age: "<<age;</pre>
                cout<<"\nYour income: "<<in;</pre>
                cout<<"\nYour city: "<<city;</pre>
                cout<<"\nCar status: "<<car;</pre>
        }
};
                //end of class
int main()
```

```
{
        try_throw d;
                                 //obj. of class
        try
                d.get_age();
                                         //accept details
                d.get_income();
d.get_city();
                d.get_vehicle();
                d.display();
        }
        catch(const char *ptr)
                                         //catch the string in throw function if
conditions are not satisfied
        {
                cout<<endl<<ptr<<endl;</pre>
        }
        return 0;
} //end of program
OUTPUT
dell@ghe1de-saurabh16-12-99:~/Desktop/oops_assignment$ g++ ass7oops.cpp
dell@ghelde-saurabhl6-12-99:~/Desktop/oops_assignment$ ./a.out
Enter age: 12
Invalid age..!!
dell@ghelde-saurabh16-12-99:~/Desktop/oops_assignment$ ./a.out
Enter age: 18
Enter income: 49000
Invalid Income..!!
dell@ghelde-saurabhl6-12-99:~/Desktop/oops_assignment$ ./a.out
Enter age: 18
Enter income: 51000
Enter city [in small letters only]: kolkata
Person is not staying in Pune/Mumbai/Banglore/Chennai..!!
dell@ghelde-saurabhl6-12-99:~/Desktop/oops_assignment$ ./a.out
Enter age: 18
Enter income: 51000
Enter city [in small letters only]: pune
Enter y if you have car else enter n: n
 Person should hold car..!!
dell@qhelde-saurabhl6-12-99:~/Desktop/oops_assignment$ ./a.out
Enter age: 18
Enter income: 51000
Enter city [in small letters only]: pune
Enter y if you have car else enter n: y
Your age: 18
Your income: 51000
Your city: pune
Car status: y
```