Ex.1

```java
import java.util.*;
import java.io.*;
public class Oddeven1
{
public  static void main(String args[]) throws IOException
{
File f=new File("program.txt");
                File odd=new File("odd.txt");
                File even=new File("even.txt");
                OutputStream fo=new FileOutputStream(f);
int c;
char d;
String a;
BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
System.out.println("Enter the numbers and enter q at the end");
do{
d=(char)br.read();
if(d!='q')
{
fo.write(d);
}
}while(d!='q');
d='0';
fo.close();
OutputStream fa=new FileOutputStream(odd);
OutputStream fb=new FileOutputStream(even);
InputStream ef=new FileInputStream(f);
int i=0;
while((i=ef.read())!=-1)
```
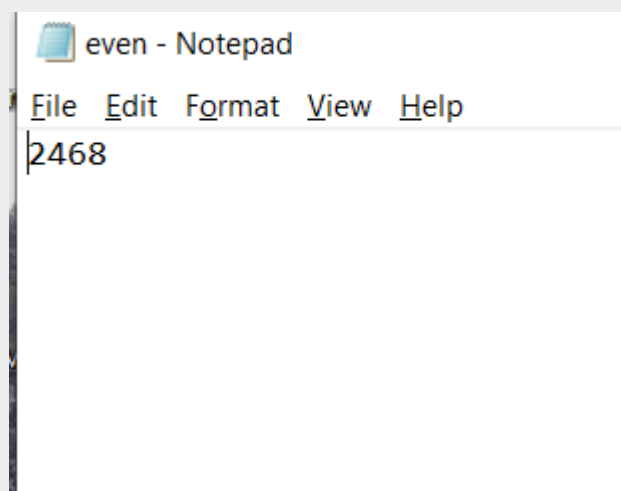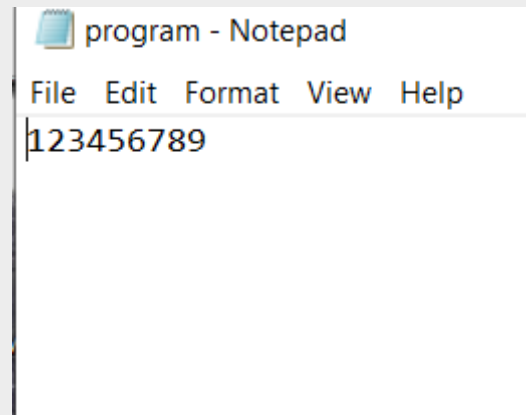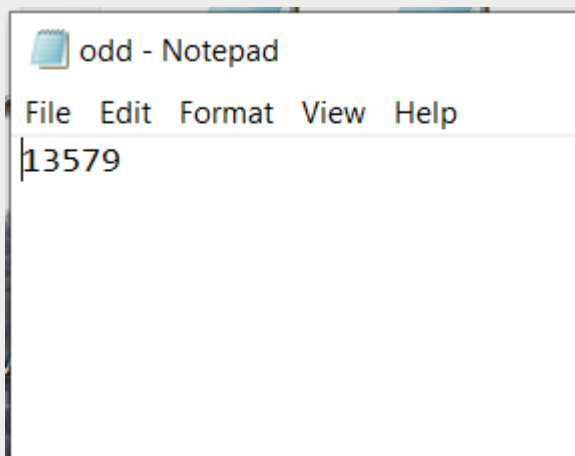
```java
{
d=(char)i;
c=Integer.parseInt(String.valueOf(d));
if(c%2==0)
{
fb.write(d);
}
else if (c%2!=0)
{
fa.write(d);
}
}
fa.close();fb.close();ef.close();
InputStream ab=new FileInputStream(odd);
InputStream cd=new FileInputStream(even);
                System.out.println("Odd numbers in the file odd");


                while((i=cd.read())!=-1){

                        System.out.println((char)i+" ");

                }
        System.out.println("Even numbers in the file Even");

                while((i=ab.read())!=-1){

                        System.out.println((char)i+" ");

                }
                cd.close();ab.close();

        }

}
```

Result

```
Enter the numbers and enter q at the end
123456789q
Odd numbers in the file odd
2
4
6
8
Even numbers in the file Even
1
3
5
7
9
```

odd - Notepad

File Edit Format View Help

```
13579
```

program - Notepad

File Edit Format View Help

```
123456789
```

even - Notepad

File Edit Format View Help

```
2468
```

Ex.2

```java
import java.io.*;

import java.util.*;


class Employee implements Serializable {


    String id;

    String employee_name;

    String date_of_birth;


    void empinput()
{
Scanner s = new Scanner(System.in);
System.out.println("Enter the customer id ");
        this.id = s.next();
System.out.println("Enter the customer name ");
        this.employee_name = s.next();
System.out.println("Enter the customer date of birth ");
        this.date_of_birth=s.next();
    }
}


class Mainn {
    public static void main(String[] args) {
        int n;
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the number of customers");
        n=s.nextInt();
Employee[] emp = new Employee[n];
try
{
FileOutputStream file = new FileOutputStream("hello.txt");
```

```java
ObjectOutputStream output = new ObjectOutputStream(file);
 ArrayList<Employee> empl = new ArrayList<>();
for(int i=0;i<n;i++)
{
emp[i]=new Employee();
emp[i].empinput();
empl.add(emp[i]);
}
output.writeObject(empl);
output.flush();
output.close();
FileInputStream fileStream = new FileInputStream("hello.txt");
ObjectInputStream input = new ObjectInputStream(fileStream);
ArrayList em = (ArrayList<Employee>) input.readObject();
System.out.println("Enter the customer id to be searched ");
String ab=s.next();
int count=0;
Employee a;
Iterator itr=em.iterator();
first : {
while(itr.hasNext()){
a=(Employee)itr.next();
if(a.id.equals(ab))
{
System.out.println("Found");
System.out.println(a.id);
System.out.println(a.employee_name);
System.out.println(a.date_of_birth);
count=1;
break first;
}
```

```java
        }

    }

    if(count==0)

    {

    System.out.println("Not found");

    }

    input.close();

    output.close();

    }catch(Exception e)

    {

    e.printStackTrace();

    }

    }

}
```

Result

```
Enter the number of customers
2
Enter the Employee id
1201
Enter the Employee name
Jagannath
Enter the Employee date of birth
24102000
Enter the Employee id
1202
Enter the Employee name
Rajan
Enter the Employee date of birth
20101990
Enter the customer id to be searched
1202
Found
The Employee id is 1202
The Employee name is Rajan
The Employee dob is 20101990
```