Module-5

Assignment-2

Code:

arraylist class:

```java
package Module_5;

import java.io.*;

import java.util.*;

public class arraylist {

int n;

ArrayList<Integer> arr;

arraylist(){

n=0;

}

void input()throws IOException{

InputStreamReader isr=new InputStreamReader(System.in);

BufferedReader br=new BufferedReader(isr);

System.out.println("Enter the number of elements in the array list: ");

int n=Integer.parseInt(br.readLine());

arr=new ArrayList<Integer>(n);

int i;

System.out.println("Enter the elements in the array list: ");

for(i=0;i<n;i++) {

arr.add(Integer.parseInt(br.readLine()));

}

System.out.println("The array list: "+arr);
```

```java
System.out.println("The size of the array list: "+arr.size());

}

void delete(int x) {

int index=0;

index=arr.indexOf(x);

arr.remove(index);

System.out.println("The resultant array list: "+arr);

System.out.println("The index of the deleted element: "+index);

}

}
```

arraylist_main class:

```java
package Module_5;

import java.io.*;

public class arraylist_main {

public static void main(String args[])throws IOException{

InputStreamReader isr=new InputStreamReader(System.in);

BufferedReader br=new BufferedReader(isr);

arraylist ob=new arraylist();

ob.input();

System.out.println("Enter the value to delete in the array list: ");

int b=Integer.parseInt(br.readLine());

ob.delete(b);

}

}
```

Output:

Enter the number of elements in the array list:

5

Enter the elements in the array list:

10

50

90

70

30

The array list: [10, 50, 90, 70, 30]

The size of the array list: 5

Enter the value to delete in the array list:

30

The resultant array list: [10, 50, 90, 70]

The index of the deleted element: 4