1. PROGRAM

```
import java.util.ArrayList;
import java.util.Scanner;
public class Userdefined {
        public static void main(String... args) {
        ArrayList<Integer> l1=new ArrayList<>();
         int sum1=0;
         int sum2=0;
        Scanner scan=new Scanner(System.in);
        int n=scan.nextInt();
        for(int i=0;i<n;i++)
        {
            l1.add(scan.nextInt());

                    if(i%2==0) {
            if(l1.get(i)%2==0) {
                    sum1=sum1+l1.get(i);
              }
              else {
                    if(l1.get(i)%2!=0)
                            sum2=sum2+l1.get(i);
              }
        }
              }
              System.out.println(sum1+sum2);
}
}
```

Sample Input

5

51

78

120

21

46

Sample Output

187

2. PROGRAM

```
import java.util.ArrayList;
import java.util.Scanner;
public class Userdefined {

        public static void main(String... args) {

          int n,sum=0;
         Scanner scan=new Scanner(System.in);
         System.out.println("Enter the value:");
         n=scan.nextInt();
         int []a=new int[n];
         ArrayList<Integer> l1=new ArrayList<>(n);
         System.out.println("Enter the element:");
         for(int i=0;i<n;i++)
         {
                 a[i]=scan.nextInt();
                 l1.add(a[i]);
                 if(i%2==0)
                 {
                         sum+=a[i];
                 }
         }
```

```
                System.out.println(sum);

}
}
```

Sample Input

6

765

879

779

745

898

645

Sample Output

2269

3. PROGRAM

```
import java.util.*;

class Matches {
        int noofMatches;
        String name;

         Matches(int noofMatches,String name){
         this.noofMatches=noofMatches;
         this.name=name;

         }
         public int getnoofMatches() {
```

```
        return noofMatches;
    }
    public void setnoofMatches(int noofMatches) {
        this.noofMatches = noofMatches;
    }
    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }


    }

public class SimpleSort{
public static void main(String args[]){
ArrayList<Matches> al=new ArrayList<Matches>();
Scanner sc=new Scanner(System.in);
System.out.println("Enter number of teams:");
int n=sc.nextInt();
for(int i=1;i<=n;i++)
{
        System.out.println("Enter the team " + i +"detail");
        System.out.println("Enter name");
        String name=sc.next();
        System.out.println("Enter number of matches");
        int noofMatches=sc.nextInt();
        al.add(new Matches(noofMatches, name));
}
```

```
Comparator<Matches> cm1=Comparator.comparing(Matches::getnoofMatches);
 Collections.sort(al,cm1);
 for(Matches st: al){
   System.out.println(st.noofMatches+" "+st.name+" ");
   }
}
}
```

INPUT:

Enter number of teams:

3

Enter team 1 detail

Enter Name

Chennai super Kings

Enter number of matches

132

Enter team 2 detail

Enter Name

Royal Challengers Bangalore

Enter number of matches

139

Enter team 3 detail

Enter Name

Delhi Daredevils

Enter number of matches

131

OUTPUT:

Delhi Daredevils – 131

Chennai super Kings – 132

Royal Challengers Bangalore - 139

4. PROGRAM:

```
import java.util.Map;
import java.util.Scanner;
import java.util.TreeMap;

class player{
	int capno;
	String name;
	String team;
	String skill;
	public player(int capno, String name, String team, String skill) {
		this.capno = capno;
		this.name = name;
		this.team = team;
		this.skill = skill;
	}
	public int getCapno() {
		return capno;
	}
	public void setCapno(int capno) {
		this.capno = capno;
	}
	public String getName() {
		return name;
	}
	public void setName(String name) {
		this.name = name;
	}
	public String getTeam() {
```

```
		return team;
	}
	public void setTeam(String team) {
		this.team = team;
	}
	public String getSkill() {
		return skill;
	}
	public void setSkill(String skill) {
		this.skill = skill;
	}
}
public class Treemap {

	public static void main(String[] args) {
		 Map<Integer,player> map=new TreeMap<Integer,player>();
		 int capno;
			String name;
			String team;
			String skill;
			int n;
			Scanner sc=new Scanner(System.in);
			System.out.println("Enter the number of players");
			n=sc.nextInt();
			for(int i=1;i<=n;i++)
			{
				System.out.println("Enter the details of the player "+i);
				capno=sc.nextInt();
				name=sc.next();
				team=sc.next();
				skill=sc.next();
```

```
                player p=new player(capno, name, team, skill);
                map.put(capno, p);

        }

                for(Map.Entry<Integer, player> entry:map.entrySet()){

                    player b=entry.getValue();

                    System.out.println(entry.getKey()+"--"+b.name+"--"+b.team+"--
"+b.skill);

                }

        }
}
```

INPUT:

Enter the number of players

2

Enter the details of the player 1

57

Jaspirit Bumrah

Mumbai Indians

Bowler

Enter the details of the player 2

55

MS Dhoni

Rising Pune Supergiants

All Rounder

OUTPUT:

55--MS Dhoni--Rising Pune Supergiants--All Rounder

57--Jaspirit Bumrah--Mumbai Indians--Bowler