```
package package1;
import java.util.*;
public class Prime_no {
        Scanner sc=new Scanner(System.in);
        int n,flag=0;
        public void prime() {
                System. out. println ("Enter number");
                n=sc.nextInt();
                for(int i=2;i<n/2;i++) {
                        if(n%i==0) {
                                flag=1;
                                break;
                        }
                }
                if(flag==0)
                        System.out.println("Prime no");
                else
                        System. out. println("Not a prime no");
       }
}
package package1;
import java.util.*;
public class Armstrong {
        Scanner sc=new Scanner(System.in);
        int n,flag=0,sum=0;
        public void armstrong() {
                System. out. println ("Enter number");
                n=sc.nextInt();
                int p=n,n1;
```

```
while(n>0) {
                       n1=n%10;
                       sum+=(n1*n1*n1);
                       n=n/10;
               }
               if(sum==p)
                       System.out.println("Armstrong");
               else
                       System.out.println("Not an armstrong");
       }
}
package package1;
import java.util.*;
public class Fibonacci {
       Scanner sc=new Scanner(System.in);
       int n,a=0,b=1,c;
        public void fibonacci() {
               System. out. println ("Enter number");
               n=sc.nextInt();
               for(int i=1;i<=n;i++) {
                       System.out.print(a+" ");
                       c=a+b;
                       a=b;
                       b=c;
               }
       }
}
package package2;
import package1.*;
```

```
public class Common {
        public static void main(String[] args) {
                Prime_no p=new Prime_no();
               Armstrong a=new Armstrong();
               Fibonacci f=new Fibonacci();
               p.prime();
               a.armstrong();
               f.fibonacci();
       }
}
package package1;
public class Indoor {
       String game;
        public Indoor(String game){
               this.game=game;
       }
        public void display() {
               if(game.equalsIgnoreCase("chess"))
                       System.out.println("No of Players - 2");
               else if(game.equalsIgnoreCase("carom"))
                       System.out.println("No of Players - 2,4");
               else if(game.equalsIgnoreCase("ludo"))
                       System.out.println("No of Players - 2,3,4");
               else
                       System.out.println("No Data Available");
       }
```

}

```
package package1;
public class Outdoor {
        String game;
        public Outdoor(String game){
                 this.game=game;
        }
        public void display() {
                 if(game.equalsIgnoreCase("cricket"))
                          System.out.println("No of Players - 11");
                 else if(game.equalsIgnoreCase("shooting"))
                          System. out. println ("No of Players - 2");
                 else if(game.equalsIgnoreCase("vollyball"))
                          System. out. println ("No of Players - 7");
                 else
                          System. out. println ("No Data Available");
        }
}
package package2;
import java.util.*;
import package1.Indoor;
import package1.Outdoor;
public class Games {
        public static void main(String[] args) {
                 Scanner <a href="mailto:scanner">sc=new</a> Scanner (System.<a href="mailto:scanner">in</a>);
                 String game;
                 System.out.println("Enter Number of indoor games");
                 int i=sc.nextInt();
                 System.out.println("Enter Number of outdoor games");
```

```
int o=sc.nextInt();
                Indoor indoor[]=new Indoor[i];
                for(int j=0;j<i;j++) {
                        System. out. println ("Enter indoor game "+(j+1));
                        game=sc.next();
                        indoor(j]=new Indoor(game);
                        indoor[j].display();
                }
                Outdoor outdoor[]=new Outdoor[o];
                for(int j=0;j<0;j++) {
                        System.out.println("Enter outdoor game "+(j+1));
                        game=sc.next();
                        outdoor[j]=new Outdoor(game);
                        outdoor[j].display();
                }
       }
}
package package1;
public class MathOperations {
        int a,b,c;
        public MathOperations(int a,int b,int c) {
                this.a=a;
                this.b=b;
                this.c=c;
        }
        public void display() {
                if(a<b && a<c)
                        System.out.println("Max "+a);
                else if(b<c && b<a)
```

```
System.out.println("Max "+b);
               else
                       System.out.println("Max "+c);
               if(a>b && a>c)
                       System.out.println("Min "+a);
               else if(b>a && b>c)
                       System.out.println("Min "+b);
               else
                       System.out.println("Min "+c);
       }
}
package package1;
public class StatsOperations {
       int a,b,c;
        public StatsOperations(int a,int b,int c) {
               this.a=a;
               this.b=b;
               this.c=c;
       }
        public void display() {
               double average=(a+b+c)/3;
               double median=(b+1)/2;
               System. out. println ("Average "+average+"\tMedian "+median);
       }
}
package package2;
import java.util.*;
import package1.MathOperations;
import package1.StatsOperations;
```

```
public class Numbers {
```