

1.

```
import java.util.*;
public class Marathon {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter a starting distance
        (between 5km to 8km):");
        int n=sc.nextInt();
        while(n<=5 || n>=8) {
            System.out.println("Sorry. Choose between 5km to
            8km");
            System.out.println("Enter a starting distance
            (between 5km to 8km):");
            int m=sc.nextInt();
            n=m;
        }
        int org=n;

        while(n>0) {
            if(n<3) {
                System.out.println("Distance to run:"+n);
                System.out.println("Almost there!");
            }
            else if(n==org-1) {
                System.out.println("Distance to run:"+n);
                System.out.println("Good start,keep it up!");
            }
            else {
                System.out.println("Distance to run:"+n);
            }
        }
    }
}
```

```
}  
n-=1;  
  
}  
System.out.println("Done for the day!");  
  
}  
  
}
```

2.

```
import java.util.*;  
public class ProfitLoss {  
    public static void main(String[] args) {  
        // TODO Auto-generated method stub
```

```
Scanner sc=new Scanner(System.in);
```

```
int n=sc.nextInt();  
int[] arr=new int[n];  
for(int i=0;i<n;i++) {  
    arr[i]=sc.nextInt();  
}  
int sumn=0;  
int maxm=0;  
for(int i=0;i<n-1;i++) {  
  
    for(int j=i+1;j<n;j++) {  
        sumn=0;  
        for(int k=i;k<j;k++) {  
            sumn+=arr[k];  
        }  
  
        if(sumn>=maxm) {  
            maxm=sumn;  
        }  
    }  
}  
System.out.println(maxm);
```

```
}
```

```
}
```

3.

```
import java.util.*;
```

```
public class TreasGame {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc=new Scanner(System.in);

        int n=sc.nextInt();
        int flag=0;
        ArrayList<Integer> arr=new    ArrayList<Integer>(n);

        for(int i=0;i<n;i++) {
            arr.add(sc.nextInt());
        }

        arr.sort(null);
        int sum1=0;
        int sum2=0;
        for(int i=0;i<n-1;i++) {
            sum1+=arr.get(i);
            sum2=0;
            for(int j=i+1;j<n;j++) {

                sum2+=arr.get(j);

            }
            if(sum1==sum2) {
                System.out.println("True");
                flag=1;
                break;
            }
        }
    }
}
```

```
}  
}  
if(flag==0) {  
System.out.println("False");  
}  
  
}  
  
}
```

4.

```
import java.util.*;  
public class JumpIngGame {
```

```

public static void main(String[] args) {
// TODO Auto-generated method stub
Scanner sc=new Scanner(System.in);

int n=sc.nextInt();
int j=0;
int flag=0;
int[] arr=new int[n];
for(int i=0;i<n;i++) {
arr[i]=sc.nextInt();
}
for(int i=0;i<n-1;i++) {
//for(int j=i+1;j<n;i++) {

for(int k=0;k<i+arr[i]-1;k++) {

if(arr[i+k-1]==n-1) {

flag=1;
break;
}

}
if(flag==1) {
break;
}
j+=1;
System.out.println(j);
//}
}
}

```

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

```
}
```

```
}
```

5.

```
import java.util.*;
```

```
public class NameOrder {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc=new Scanner(System.in);

        int n=sc.nextInt();
        ArrayList<String> s=new ArrayList<String>(n);
        for(int i=0;i<n;i++) {
            s.add(sc.next());
        }
        s.sort(null);
        System.out.println(s);

    }

}
```