# 23.12.21

```
○ 작성일시◎ 2023년 12월 21일 오전 9:48ः 태그
```

# 인터페이스[기본적으로 public으로 적용]

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```

## 다중 인터페이스

```
// 클라스는 다중 인터페이스를 상속할수있다
no usages
public class SmartTv implements RemoteControl, Searchable
```

#### 인터페이스 활용

### instansof(형 변화)

```
instanceof 형 변화

boolean isBus = vehicle.getClass().equals(Bus.class);

// instanceof 형변화 인스턴스를 클라스로 변환

if(vehicle instanceof Bus){

Bus bus = (Bus) vehicle;

bus.chackFare();

}
```

#### 명령어 별 단위

```
// InputStream; byte 단위
/> InputStreamReader; char 단위
// BufferedReader; string 단위
```

```
next; 문자열 token
nextLine; 줄 단위
nextInt; 정수 입력
```

InputStream/InputStreamReader(char 문자)

InputStream/InputStreamReader(BufferedReader :길이 상관 X)

```
// * 사용 하면 그만큼 많은 메모리를 차지한다.
import java.io.IoException;
import java.io.InputStream;
import java.io.InputStreamReader;

//throws IOException 사용
public class Exm {
    public static void main(String[] args) throws IOException {
        InputStream in =System.in; //InputStream
        InputStreamReader reader = new InputStreamReader(in);
        BufferedReader br = new BufferedReader(reader); //걸이 상관없이 받는다.
        String a= br.readLine();
        System.out.println(a);
}
```

Scanner

```
public class Exm {
   public static void main(String[] args) throws IOException {
        Scanner sc = new Scanner(System.in);
        System.out.println(sc.next());
}
```