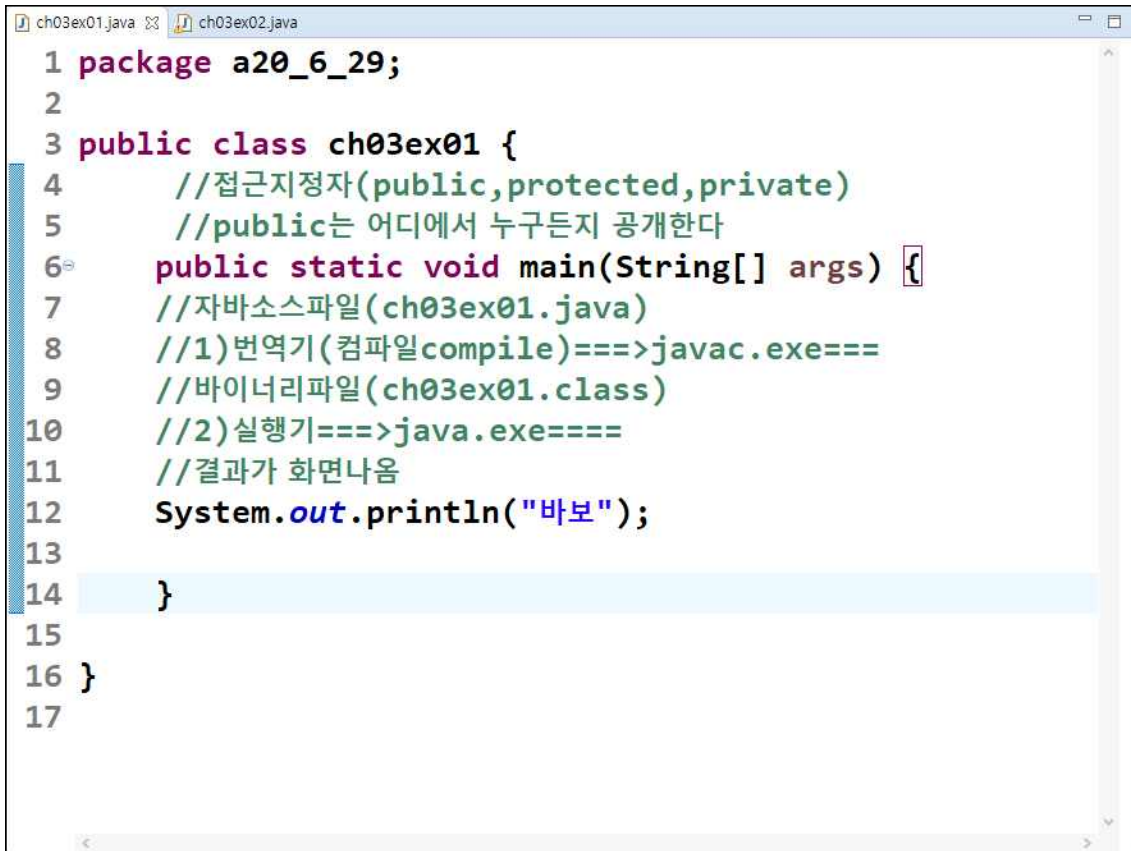


20-6-29

번역과 실행



```
1 package a20_6_29;
2
3 public class ch03ex01 {
4     //접근지정자(public,protected,private)
5     //public는 어디에서 누구든지 공개한다
6     public static void main(String[] args) {
7         //자바소스파일(ch03ex01.java)
8         //1)번역기(컴파일compile)===>javac.exe===
9         //바이너리파일(ch03ex01.class)
10        //2)실행기===>java.exe===
11        //결과가 화면나옴
12        System.out.println("바보");
13    }
14 }
15
16 }
17
```

복습

```

ch03ex01.java  *ch03ex02.java
3 public static void main(String args[]) {
4     int a=10, b=3; //정수형(byte,short,long)
5     double c; //실수형(float)
6     char x;
7     String name;
8     boolean t;
9     System.out.println(a*b);
10    System.out.println(a/b);
11    System.out.println(a/(double) b);
12    System.out.println(a%b);
13    a++; //a=a+1, a++, ++a
14    b--; //b=b-1, b--, --b
15    a=a+b; // a+=b 축약형
16    System.out.println(a+","+b);
17    int z; //교체를 위한 변수
18    z=a;
19    a=b;
20    b=z;
21    System.out.println(a+","+b);

```

```

*ch03ex03.java
1 package a20_6_29;
2
3 public class ch03ex03 {
4     public static void main(String[] args) {
5         int a=12, b=4;
6         int c,d,e,f;
7         c=a^b; //xor(두비트가 다르면 1, 같으면 0) 두비트의 합
8         d=a<<2;
9         e=a>>2;
10        f=~a;
11
12
13    }
14
15 }
16

```

1 1 0 0 (12)
 xor 0 1 0 0 (4)

 1 0 0 0 (8)

```

1 package a20_6_29;
2
3 public class ch03ex03 {
4     public static void main(String[] args) {
5         int a=12, b=4;
6         int c,d,e,f;
7         c=a^b; //xor(두비트가 다르면 1, 같으면 0) 두비트의 합
8         d=a<<3; //왼쪽으로 3비트 이동
9         e=a>>3; //오른쪽으로 3비트 이동
10        f=~a+1; //1의보수+1 (2의보수)
11        System.out.println(c);
12        System.out.println(d);
13        System.out.println(e);
14        System.out.println(f);
15    }
16 }
17
18 }
19

```

0000 1100 (12)
 0001 1000 (24)
 0011 0000 (48)
 0110 0000 (96)

$12 \times 2^3 = 12 \times 8 = 96$

3항연산자를 이용하여 최대값을 구하기

```

1 package a20_6_29;
2
3 public class ch03ex04 {
4     public static void main(String[] args) {
5         int a=10, b=30, c=90, max;
6         max=(a>b)?a:b;
7         max=(max>c)?max:c;
8         System.out.println("최대값="+max);
9     }
10 }
11
12 }
13

```

a 10
 b 30
 c 90

max 90

스캐너를 이용하여 입력받기

```
ch03ex03.java ch03ex04.java
1 package a20_6_29;
2
3 import java.util.Scanner;
4
5 public class ch03ex04 {
6     public static void main(String[] args) {
7         int a,b,c,max;
8         Scanner sc=new Scanner(System.in);
9         a=sc.nextInt();
10        b=sc.nextInt();
11        c=sc.nextInt();
12        max=(a>b)?a:b;
13        max=(max>c)?max:c;
14        System.out.println("최대값="+max);
15
16    }
17
18 }
```

90
20
100
최대값=100

```
ch04ex01.java
1 package a20_6_29;
2
3 public class ch04ex01 {
4     public static void main(String[] args) {
5         int x=6;
6         if(x%2==0) System.out.println("짝수");
7         System.out.println("홀수");
8     }
9
10 }
```

짝수
홀수


```
ch04ex01.java
1 package a20_6_29;
2
3 import java.util.Scanner;
4
5 public class ch04ex01 {
6     public static void main(String[] args) {
7         int num;
8         Scanner sc=new Scanner(System.in);
9         num=sc.nextInt();
10        if(num%2==0) System.out.println("짝수군요");
11        else System.out.println("홀수군요");
12        System.out.println("끝");
13    }
14 }
```

```
ch04ex01.java ch04ex02.java ch04ex03.java ch03ex03.java
3 import java.util.Scanner;
4 //import 자동으로 삽입하기 Ctrl + Shift + O
5 //문제) 점수를 입력받아서
6 //90점이상이면 "A학점", 80점이상이면 "B학점"
7 //70점이상이면 "C학점", 60점이상이면 "D학점"
8 //그외는 "F학점"출력되도록 하시오
9 public class ch04ex02 {
10     public static void main(String[] args) {
11         int jumsu;
12         Scanner sc=new Scanner(System.in);
13         jumsu=sc.nextInt();
14         if(jumsu>=90) System.out.println("A학점");
15         else if(jumsu>=80) System.out.println("B학점");
16         else if(jumsu>=70) System.out.println("C학점");
17         else if(jumsu>=60) System.out.println("D학점");
18         else System.out.println("F학점");
19         System.out.println("끝");
20     }
21 }
```

```
ch04ex01.java ch04ex02.java ch04ex03.java
1 package a20_6_29;
2
3 import java.util.Scanner;
4
5 //숫자를 입력받아서
6 //그 숫자가 양수이면 "양수", 0이면 "0" , 음수이면 "음수" 출력
7 public class ch04ex03 {
8     public static void main(String[] args) {
9         int num;
10        Scanner sc=new Scanner(System.in);
11        num=sc.nextInt();
12        if(num>0) System.out.println("양수");
13        else if(num==0) System.out.println("0");
14        else System.out.println("음수");
15    }
16
17 }
```