게임공확과

# 객체지향 프로그래밍

-Stack 구현하기-

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## 게임공학과 보고서 작성 양식

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#### 1 스택 구현하기 - 〈ArrayList〉 사용

```
<ArrayList> 사용 - Vector와 같은 형식
import java.util.*;
class Coin {
    private String x;
    private int y;
    public Coin(String x, int y) {
        this.x = x; this.y = y;
    public String toString() {
        return "("+x+","+y+")";
public class Stack4 {
    public static void main(String[] arg) {
        Scanner scan = new Scanner(System.in);
ArrayList<Coin> L = new ArrayList<Coin>();
        int end = 0;
        while (end !=-1) {
                 System. out. println("글자와 숫자 입력(종료시 숫자에 -1 입력): ");
                 String st = scan.next();
            int in = scan.nextInt();
             end = in;
            if(end != -1)
                 L.add(new Coin(st,in));
        L.add(3.new Coin("영",0)); //3번째에 들어갈 객체
        Iterator < Coin > it = L.listIterator();
        for(int i = L.size()-1; i >= 0; i--){
                 System.out.println(L.get(i));
```

#### 출력 결과

### 2 스택 구현하기 - 〈Object〉 사용

```
<Object> 사용 - 출력을 String으로...
import java.util.*;
class GStack<T>{
        int tos;
Object [] name;
Object [] coin;
         public GStack(){
                 tos = 0;
                 name = new Object [10];
coin = new Object [10];
         }
        public void GetCoin(String name, int coin){
    if(tos == 10) return;
    this.name[tos] = name;
    this.coin[tos] = coin;
                 tos++;
        public String coinpop(){
    if(tos ==0)
                 return null;
                 return (String)"(" + name[tos] +", " + coin[tos] + ")";
         }
public class stack2 {
        System.out.println("입력할 갯수 입력 : ");
int num = scan.nextInt();
                 for(int n=0; n < num; n++)
                          System. out. println(CoinStack.coinpop());
         }
```

```
출력 결과
```

```
      <terminated> stack2 [Java Application] C:\(\pi\)Program Files\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\)Java\(\pi\
```