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| **2019년 11월 13일 실습보고서** |
| **5조 송재원 조윤직 김영준 안정근** |
| **실습자료1 : [실습제목]** |
| **소스코드** |
| Word.java  package java\_1113;  import java.util.Arrays;  import java.util.Random;  public class Word{  static Random *rand* =new Random();  private String word\_e;  private String[] mean;  public Word(String eng,String[] mean) {  word\_e=eng;  this.mean=mean;  }  public Word(String string, String string2, String string3) {  // **TODO** Auto-generated constructor stub  }  public String getWord\_e() {  return word\_e;  }  public String[] getMean() {  return mean;  }  public boolean correct(String dd) {  for(int i=0;i<mean.length;i++) {  if(mean[i].equals(dd))  return true;  }  return false;  }  public String checkMean(int i) {  return mean[i];  }  public String randMean() {  return mean[*rand*.nextInt(mean.length)];  }  *@Override*  public String toString() {  return "Word [word\_e=" + word\_e + ", mean=" + Arrays.*toString*(mean) + "]";  }  *@Override*  public int hashCode() {//Set으로 담을 경우- hashcode 영어로만  // **TODO** Auto-generated method stub  return word\_e.hashCode();  }  *@Override*  public boolean equals(Object obj) { //set으로 담을경우 - Word.equals는 영어만 비교  // **TODO** Auto-generated method stub  if(obj instanceof Word)  return word\_e.equals(((Word)obj).word\_e);  return false;  }  }  Wordtest.java  package java\_1113;  import java.io.File;  import java.io.FileNotFoundException;  import java.util.\*;  public class Wordtest {  static Random *r* = new Random();  static Scanner *sc* = new Scanner(System.***in***);  protected static LinkedHashMap<String, Word> *words*;  public static void fileopen() throws FileNotFoundException {  File file = new File("words.txt");  Scanner scans = new Scanner(file);  *words* = new LinkedHashMap<>();  while (scans.hasNextLine()) {  String eng = scans.nextLine().trim();  String[] mean = (scans.nextLine().trim()).split("/");  for (int i = 0; i < mean.length; i++) {  mean[i] = mean[i].trim();  }  if (!*words*.containsKey(eng)) {  *words*.put(eng, new Word(eng, mean));  }  }  scans.close();  }  // 인덱스로 접근 할수 없는 Linkedhashmap에 iterator로 n번째 밸류에 접근을 시켜주는 함수  public static Word getWords(int num) {  Set<String> set = *words*.keySet();  Iterator<String> it = set.iterator();  int count = 0;  while (it.hasNext()) {  if (count == num) {  return *words*.get(it.next());  } else {  it.next();  count++;  }  }  return null;  }  public static void AddWords() {  String addEng;  System.***out***.print("추가할 영단어를 입력하세요 : ");  addEng = *sc*.nextLine().trim();  if (!(*words*.containsKey(addEng))) {  System.***out***.print("단어의 뜻을 입력하세요(뜻이 여러개일 경우 '/'로 구분해주세요) :");  String[] addMean = (*sc*.nextLine().trim()).split("/");  *words*.put(addEng, new Word(addEng, addMean));  for (String m : addMean) {  System.***out***.println(addEng + " : " + m);  }  } else {  System.***out***.println("등록되어 있는 단어입니다.");  }  }  public static void main(String[] args) throws FileNotFoundException {  // **TODO** Auto-generated method stub  *fileopen*();  int num;  System.***out***.println("5조 송재원 조윤직 김영준 안정근 입니다.");  while (true) {  System.***out***.println(*words*.size());  System.***out***.println("1) 주관식 2) 객관식 3) 단어 추가 4) 종료");  num = *sc*.nextInt();  *sc*.nextLine();  if (num == 1) {  *Subjective*();  } else if (num == 2) {  *ObjectiveCorrect*();  } else if (num == 3) {  *AddWords*();  } else if (num == 4) {  System.***out***.println("종료합니다.");  break;  } else {  System.***out***.println("다시 입력해 주세요");  }  continue;  }  }  public static void ObjectiveCorrect() {  int w = 0;  boolean[] delWord = new boolean[*words*.size()];  int repeat = 0;  for (int j = 0; j < 5; j++) {  int num;  do {  if (repeat == *words*.size()) {  System.***out***.println("단어장의 모든 단어가 사용되었습니다.");  return;  }  num = *r*.nextInt(*words*.size());  } while (delWord[num]);  repeat++;  delWord[num] = true;  Word[] testWord = new Word[5];  testWord[0] = *getWords*(num);  Word correctWord = *getWords*(num);  boolean[] useWord = new boolean[*words*.size()];  useWord[num] = true;  for (int i = 1; i < testWord.length; i++) {  int rand = *r*.nextInt(*words*.size());  if (useWord[rand]) {  i--;  continue;  } else {  testWord[i] = *getWords*(rand);  useWord[rand] = true;  }  }  for (int i = 0; i < 100; i++) {  Word tempWord;  int[] mixNum = { *r*.nextInt(4), *r*.nextInt(4) };  if (mixNum[0] == mixNum[1]) {  i--;  continue;  } else {  tempWord = testWord[mixNum[0]];  testWord[mixNum[0]] = testWord[mixNum[1]];  testWord[mixNum[1]] = tempWord;  }  }  System.***out***.println();  System.***out***.println("\*객관식 문제\*");  System.***out***.println((j + 1) + "번 :[" + correctWord.getWord\_e() + "]");  for (int i = 0; i < testWord.length; i++) {  System.***out***.print("- " + (i + 1) + "번 : ");  for (int k = 0; k < testWord[i].getMean().length; k++) {  System.***out***.print(testWord[i].checkMean(k));  if (k < testWord[i].getMean().length - 1) {  System.***out***.print(" / ");  }  }  System.***out***.println();  }  System.***out***.print("-단어뜻 : ");  int userNum;  while (true) {  userNum = *sc*.nextInt();  *sc*.nextLine();  if (userNum < 1 || userNum > 5) {  System.***out***.println("1~5번까지의 보기중에서 선택해주세요.");  continue;  } else {  break;  }  }  userNum -= 1;  boolean check = true;  for (int i = 0; i < testWord[userNum].getMean().length && i < correctWord.getMean().length; i++) {  if (testWord[userNum].checkMean(i).equals(correctWord.checkMean(i))) {  System.***out***.println("정답입니다.");  w += 1;  check = false;  break;  }  }  if (check) {  System.***out***.println("오답입니다.");  }  }  System.***out***.println("맞은갯수 : " + w + "/5");  }  public static void Subjective() {  int w = 0;  int num[] = { 0, 0, 0, 0, 0 };  int checknum;  for (int i = 0; i < 5; i++) {  num[i] = *r*.nextInt(*words*.size());  for (int j = 0; j < i; j++) {  if (num[i] == num[j]) {  i--;  break;  }  }  }  for (int j = 0; j < 5; j++) {  checknum = num[j];  System.***out***.println(*getWords*(checknum).getWord\_e());  System.***out***.println("뜻을 입력하시요 : ");  String str = *sc*.nextLine();  str = str.trim();  if (*getWords*(checknum).correct(str)) {  System.***out***.println("정답입니다.");  w += 1;  } else  System.***out***.println("정답이 아닙니다.");  }  System.***out***.println("맞은갯수 : " + w + "/5");  }  } |
| **실행결과** |
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