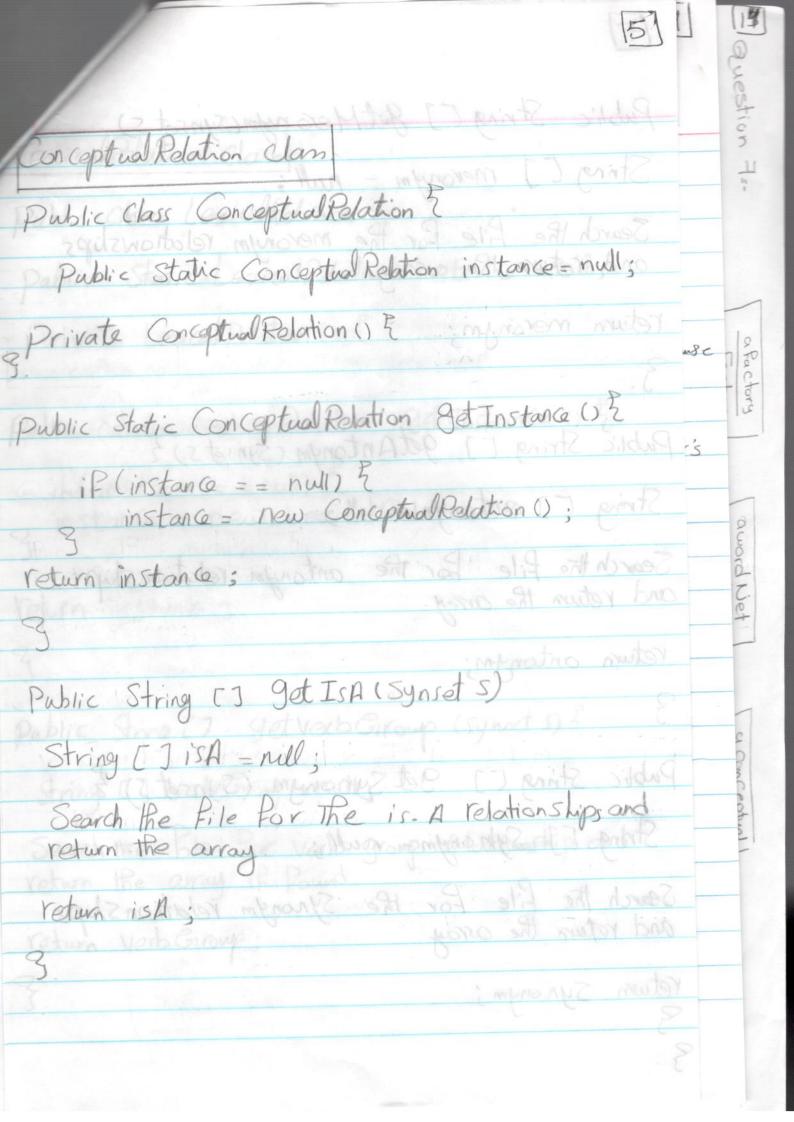


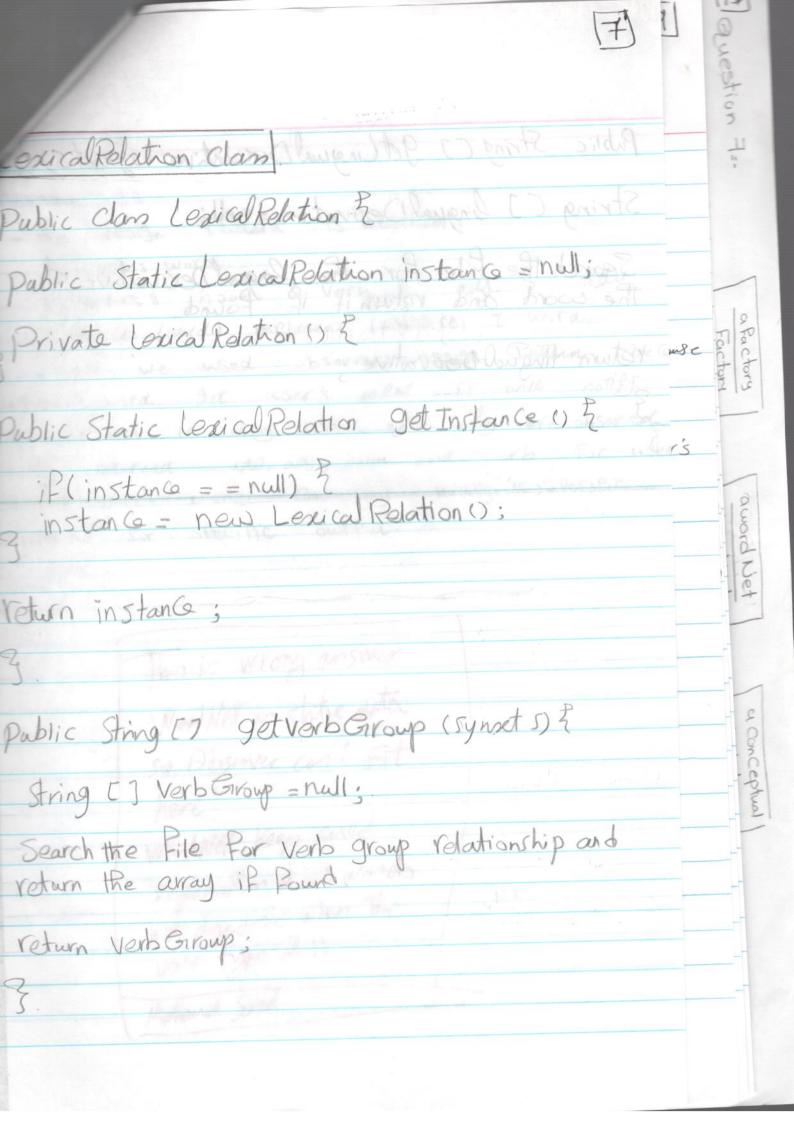
2 Synset Class of 13 boll 15 boll dua Add Ahmed Hass Public Class Synset & 1 1 mm (0A) Private int internal Identifier; 8106 GOD Will Private String Gloss Name; Public String get Gloss () } return gloss Name; erical Palation Public SetGloss (String gloss) & Control that Otherway glossName = gloss; (Thanks Ast to By Edmin) 4 3 my guar drol/topopart H. Stenner J. Oct M. exception (Sunat motor per leapni Italy manist + String C7. get Antonym Cynth 1) I word interface (2 benefit : 9 of Syconym ( Stand 5) Public interface Iword ? Void notify (); String Search (); Void POS(); white nother not one

Question Word Class Public Clan word Enter and anildrey als side Private int internal Identifier; Private list Observers; Public Void Pos & Constant and States For (int i=0; Observers, Size o; i++) & stranger Observers. get (i). notify () instance - new conceptual Polational obout A Outolic clam Adverto implementa structed ? award Net 9 w 19 Har mote silling Mun charbro prote Noun dans droubs titili sil sodues Public Clan Noun implements I word? Coverride Public String Search () } String noun = null; Search the file if it is nown 7 O Alton protes sade return noun;

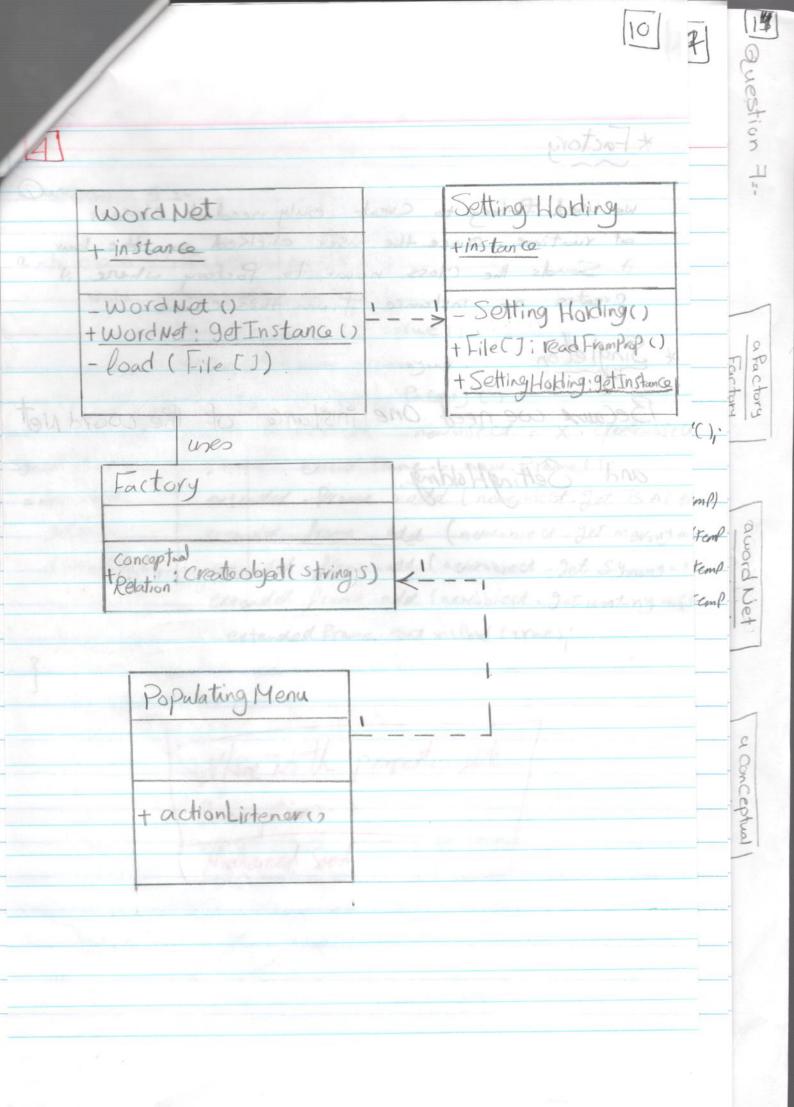
Verb dan Public Clan Verb implements Iword & @ override Public String notify() ? String verb = null; search the File if it is verb. return verb; + (+++ 0 902, novordo), b=1 1/11/10 Adverb Clan Public Clan Adverb implements Iword ? @ overnide. Public String notify () & String adverb = null; Search the File. if it is adverb. Public Clem Nown implements I word & Adjective clan Public clan Adjective implements Iward ? @overide Public String notify () } String adjective = null; Search the File if it is adjective return adjective;



Public String [] get Meronym (synsets
String [] meronym = null;
Search the file for the meronym relationships and return the array.
return meronym; I month all the sold start
J. Standard T. B. notted Blacker in J. A. D. and
Public String [] getAntonym (synsets) ?
String [] antonym = null;
Search the file for the antonym relationships and return the array.
return antonym;
Public String [] get Synonym (Synsets) &
Public String [] Get Synonym (Synset 5) 2
String [] Synonym = null;
Search the file For the Syronym relationships and return the array
Street adjustus miles
Yeturn Synonym; deduce
3.



Public String [] get Lingual Douvative (Synsets) String [] lingual Derivative = null; Search the file for the lingual Descriptive of the word and voturn if if found. return lingual Derivative; Die Static Lexical Palation 9et Instance 1) ? ? Sing (3 got Varla Group (Synot s) ? Sting [] Soly War Man Man School [] Print - the design Pattern is observer. observers & noun & verb & adj. & adv. - Subject (word) implement (interface) I word. Here we used observer design Pattern because then word get user's input it will notify Il observs in array list after they are observed they returned adv, ady, nown and verb For user's aput, and word Can only notify Specific osorver For specific out Put. This is wrong answer Ward Net in statie data so Observer con't fit Word Net Keep sixed Information about words not dynamic when the Mohamed Sord



\* Factory we used factory to create only needed classes at runtime. Once the user clicked on the box it sands the Class name to factory where it Because we need one instance of the word Net and SettingHolding.

Question Six:

a- The design Pattern is adaptor, we will use it

to use old interface to send only word as

a Parameter to the nothed, and in some class

we need to Calculate Pos and pesend the

nord and the Pos which we calculated to the new interface string [] get Meronym (string word;

STring Pos).

Conceptual Relation	Adeptor	old Interface
+ instance	Galles In Front De Son De	getybrany m (string)
- Conceptual Relation		
get Instance ();	got Pos (string)>	
+ gat Merking missing		
net Antonym (synset)		
Getsynnym (streats)	, , , , , , , , , , , , , , , , , , ,	
-	+ instance  - Conceptual Relation  Get Instance ();  + String[] Gals A  + Gat Merking m(synset)  Det Antonym(synset)	+ instance  - Conceptual relation  Get Instance ();  + string[] JaIs A  Paga Menson m(s year)  Pet Antonym (synset)

New Greefiel Relation

Set Moronym (String)

Word, String

Pos)

New Interface

9et Movonym

1string, Pos)

