

## APPENDIX 1– Survey Questionnaire And Results

### WXGC 6182 – Master Of Software Engineering LEARNING OBJECT IN OBJECT-ORIENTED PROGRAMMING

I am a student from MSE courses. This survey is doing as a part of my research project, *Learning Object In Object-Oriented Programming*. This survey consists of several questions that asking about the learning style and the learning material used. The results of the survey will be use for the study and application development that appropriates to this study. Thank you for your cooperation.

Sincerely,  
Tan Hock Chuan  
WGC 030061

#### Section A: Respondent information

1. What is your age range?
  - a. 18-20
  - b. 20-22
  - c. 22-24
  - d. 24 - 26
  - e. over 26
2. What is your gender?
  - a. male
  - b. female

#### Section B: About the study – Learning object

3. Do you concentrate on your study (no destruction)?
  - a. Seldom
  - b. often
  - c. frequent

*For question 4, please uses the following scale.*

**1 – most seldom      2 – seldom      3 – moderate      4 – frequent      5 – most frequent**

4. What type of resources do you normally use in study (include skill learning, language learning)?

a. books	1	2	3	4	5
b. notes	1	2	3	4	5
c. e-books (include power point)	1	2	3	4	5
d. webpage	1	2	3	4	5
e. media (video, tape)	1	2	3	4	5
f. learning aid software (include animation, flash, problem solving tools)	1	2	3	4	5

*For question 5, can choose more than one answer.*

5. How do you write down your note? By using
  - the textbook
  - notebook
  - blank paper
  - softcopy (computer file)
  - others, \_\_\_\_\_

6. Do you highlight important text?
  - a. yes
  - b. no

7. If you say **YES** in *question 6*, why?
  - a. because it is important
  - b. because I like using highlight pen

8. Do you really understand what you read?
  - a. yes
  - b. no

9. If you say **NO** in *question 8*, do you use memorize method to remember the important text?  
a. yes                                  b. no
10. Do you prefer to share notes using softcopy (computer file) to hardcopy (paper notes) with your friend?  
a. i do                                  b. i do not
11. If you say **I DO** in *question 10*, how often?  
a. seldom                              b. often                                  c. frequent
12. Have you used any learning aid software in your study?  
a. Yes (please continue on question 14)  
b. No (please continue on question 13)
13. If you say **NO** in *question 12*, why?
- 

14. How do you like to use learning aid software?  
a. like                                  b. moderate                              c. dislike

*For question 15, can choose more than one answer.*

15. I will learn and study better if the notes have these combinations  
 text  
 image  
 animation  
 sound  
 video  
 others, \_\_\_\_\_
- 

16. Do you search extra information from Internet?  
a. seldom                              b. often                                  c. frequent

### **Section C: Recommendation**

*Please check the box [√]. Can choose more than one answer.*

What functionality do you think should be include in future learning aid software?

- Can play media file (video, sound)  
 Can take note (highlight the important text, write down note)  
 Can print out the textual contents  
 Can update the textual contents from time to time  
 Have reader agent (read the full text available or certain text)  
 Provide Internet searching (keyword searching)  
 Accessible from any place (can access from different computer)  
 Easy file sharing (can send note to friend by email)  
 Security (avoid of other people modify your data)  
 Others
- 
- 

---- Thanks for your answer. Have a nice day ----

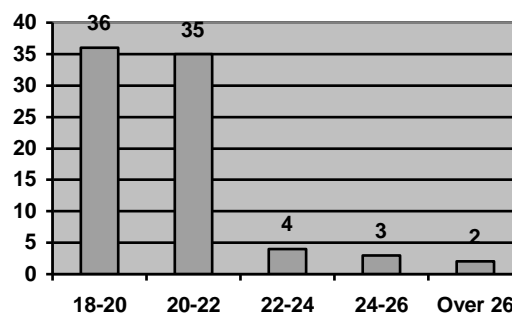
**Number of respondents** : 80  
**From** : 1) Faculty Of Computer Science And Information Technology, University of Malaya  
 2) Systematic College, Petaling Jaya Campus.

Section A: Respondent information

1. What is your age range?

Purpose: To get know about the respondent age range.

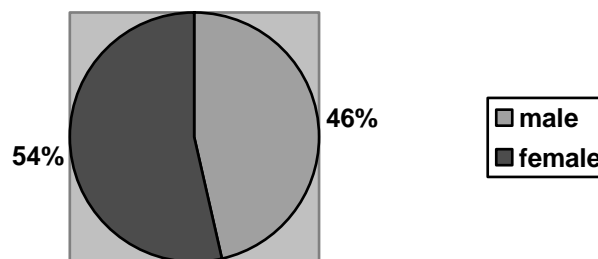
Age range	18-20	20-22	22-24	24-26	Over 26
Result	36	35	4	3	2



2. What is your gender?

Purpose: To get know about the respondent gender.

Gender	male	female
Result	37	43

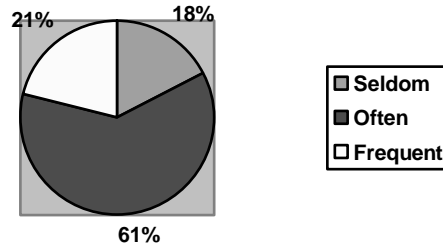


Section B: About the study – Learning Object

3. Do you concentrate on your study (no destruction)?

Purpose: To get know either the students can concentrate on their study or not.

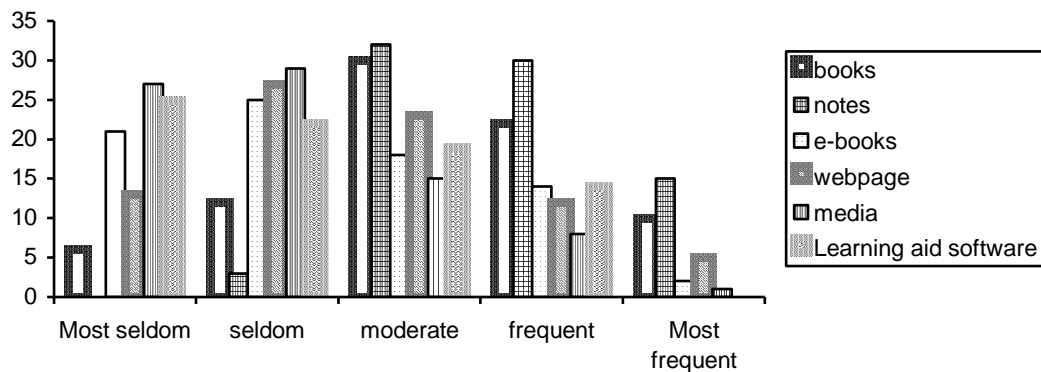
	Seldom	Often	Frequent
Result	14	49	17



4. What type of resources do you normally use in study (include skill learning, language learning)?

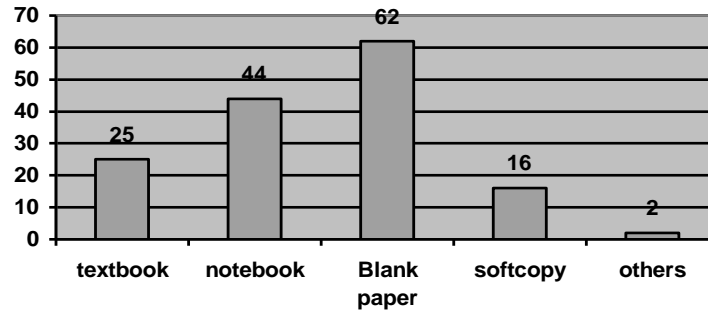
Purpose: To get know about each type of learning material usage.

	Most seldom	seldom	moderate	frequent	Most frequent
books	6	12	30	22	10
notes	0	3	32	30	15
e-books	21	25	18	14	2
webpage	13	27	23	12	5
media	27	29	15	8	1
Learning aid software	25	22	19	14	0



5. How do you write down your note? By using  
 Purpose: To get know where does respondent writes down the important note.

	textbook	notebook	Blank paper	softcopy	others
Results	25	44	62	16	2

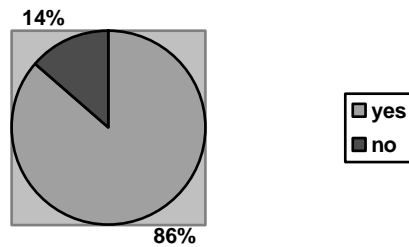


Given answers for others:

1	notes given
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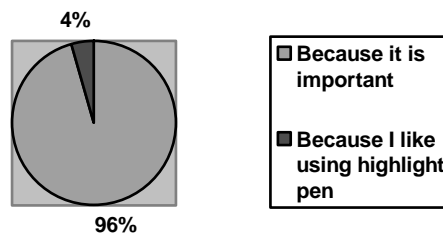
6. Do you highlight important text?  
 Purpose: To get know whether students like to take note by highlight the text or not.

	yes	no
Results	69	11



7. If you say **YES** in question 6, why?  
 Purpose: To get know why they like to highlight the text.

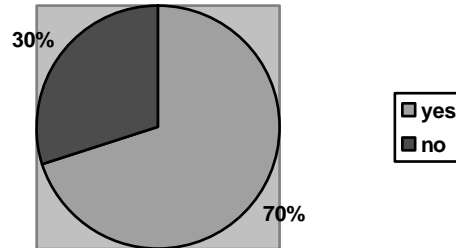
	Because it is important	Because I like using highlight pen
Results	66	3



8. Do you really understand what you read?

Purpose: To get know whether students can understand what are they study or not.

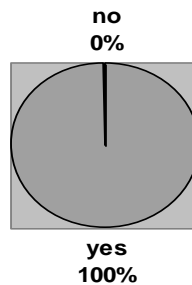
	yes	no
Results	56	24



9. If you say NO in question 8, do you use memorize method to remember the important text?

Purpose: To get know whether they use memorize more than understand an important text or not.

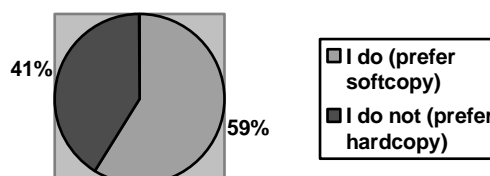
	yes	no
Results	23	0



10. Do you prefer to share notes using softcopy (computer file) to hardcopy (paper notes) with friend?

Purpose: To get know either softcopy or hardcopy normally use to share notes.

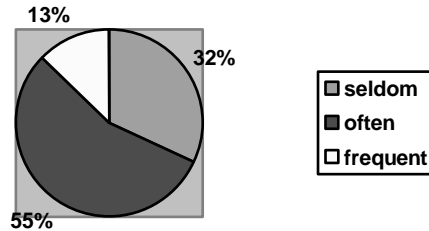
	I do (prefer softcopy)	I do not (prefer hardcopy)
Results	47	33



11. If you say **I DO** in question 10, how often?

Purpose: To get know the frequency of share note using softcopy.

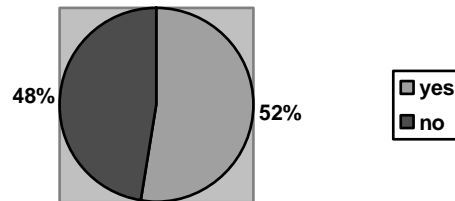
	seldom	often	frequent
Results	15	26	6



12. Have you used any learning aid software in your study?

Purpose: To get know whether respondents did use any of learning aid software before.

	yes	no
Results	42	38



13. If you say No in question 12, why?

Purpose: To know why they did not use learning aid system before.

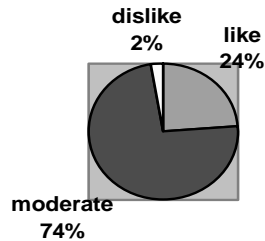
	Reasons
1	Seem no time but actually is lazy.
2	I think unnecessary.
3	Lack of the resources.
4	Didn't bring pc.
5	Waste time.
6	I do not have the source
7	Not interested.
8	I think hardcopy (paper notes) is more suitable in my studies.
9	Because I do not use computer much
10	Because I do not use computer for my study, only hand written.
11	Not interested.

12	I do not have computer at home.
13	I don't know how to use.
14	Because I think it's harder.
15	Not available.
16	Too trouble for me.
17	I don't have.
18	Never use before.
19	Never learn to use before.
20	Too lazy to create.
21	I don't know where to find one.
22	Too expensive, not all I look for.
23	No one provide.
24	Because it's trouble for me.
25	Because I prefer books which is more relevant.
26	No provide.
27	Boring.

14. How do you like to use learning aid software?

Purpose: This question is referring to respondents who answer yes in question 12. To get know how much they like to use learning aid software in their study.

	like	moderate	dislike
Results	10	31	1



15. I will learn and study better if the notes have these combinations

Purpose: To know what type of resources combinations should be include in a learning aid software to make students learn easily.

Text – T      Image – I      Animation – A      Sound – S      Video – V      Others – O

	Combination of types	
1	T	2
2	T,I	4
3	T,I,A	9
4	T,I,S	2
5	T,I,A,S	4
6	T,I,A,S,V	15
7	T,I,A,V	1
8	T,I,S,V	3

	Combination of types	
9	T,S,V	1
10	I	2
11	I,S	1
12	I,A	3
13	I,A,V	2
14	I,A,S,V	10
15	I,A,S	3
16	I,V	1



17	T,I,A,S,O	1
18	T,A	3
19	T,A,S	1
20	T,A,S,V	1
21	T,I,O	1

22	A	1
23	A,S	2
24	A,S,V	3
25	O	1
26	-	3

Given answers for others:

1.	Past year questions.
2.	If the lecturer explain in an easier way.
3.	Exercises.

### Section C: Recommendation

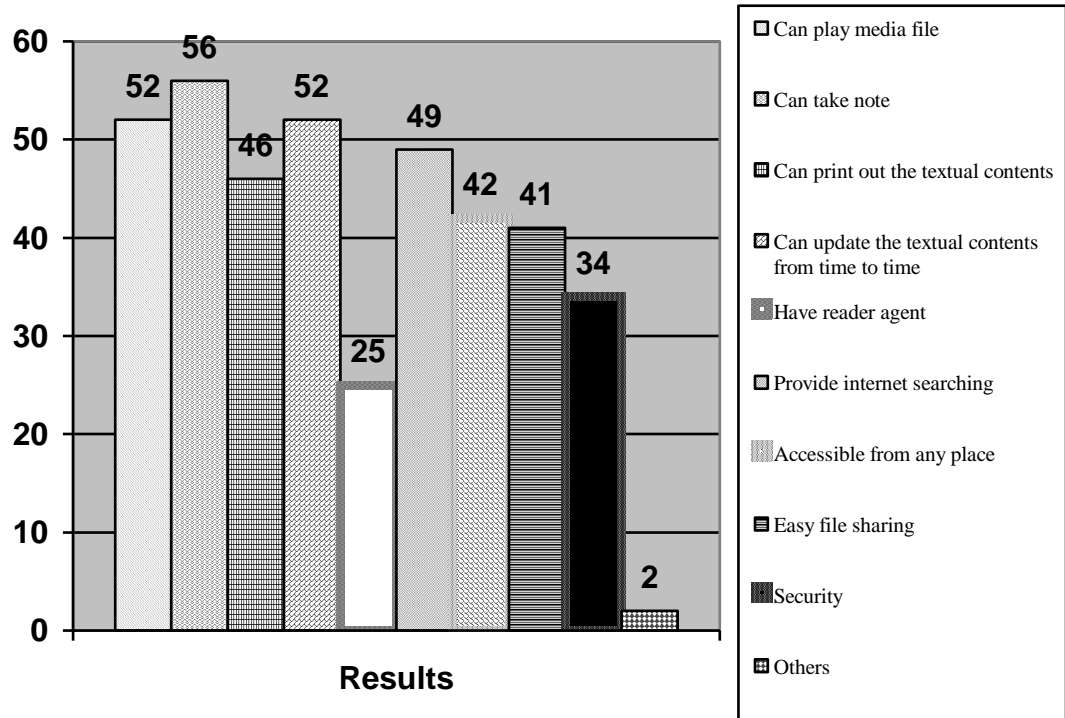
16. What functionality do you think should be include in future learning aid software?

Purpose: To know the idea learning aid software among respondent. The results are as a guide in LOOOP development.

	Results
Can play media file	52
Can take note	56
Can print out the textual contents	46
Can update the textual contents from time to time	52
Have reader agent	25
Provide internet searching	49
Accessible from any place	42
Easy file sharing	41
Security	34
Others	2

Given answers for others:

1	Memory techniques
2	I believe using “E learning” would be a good choice since it can easily deliver information to the users and boost motivation.



## APPENDIX 2– User Acceptance Questionnaire And Results

### WXGC 6182 – Master Of Software Engineering LEARNING OBJECT IN OBJECT-ORIENTED PROGRAMMING

I am a student from MSE courses. This user acceptance testing is doing as a part of my research project, *Learning Object In Object-Oriented Programming*. This testing consists of several questions that asking about the LOOOP system developed under this project. The results of the survey will be use for the study. Thank you for your cooperation.

Sincerely,  
Tan Hock Chuan  
WGC 030061

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#### Section A: Respondent information

2. What is your age range?
- a. 18-20
  - b. 20-22
  - c. 22-24
  - d. 24 - 26
  - e. over 26

2. What is your gender?
- b. male
  - b. female

#### Section B: User acceptance questionnaire

- |   |     |    |
|---|-----|----|
| 3. I liked the interface of the system.   | Yes | no |
| 4. The interface of this system was pleasant to use.                            | Yes | no |
| 5. This system has all the functions and capabilities that I expect it to have. | Yes | no |
| 6. It was simple to use this system.  | Yes | no |
| 7. It was easy to find the information I needed.                                | Yes | no |
| 8. It was easy to learn to use the system.                                      | Yes | no |
| 9. The information provided by the system was easy to understand.               | Yes | no |
| 10. I felt comfortable using this system.                                       | Yes | no |
| 11. The system gave error messages that clearly told me how to fix problems.    | Yes | no |
| 12. Overall, I am satisfied with this system.                                   | Yes | no |

---- Thanks for your answer. Have a nice day ----

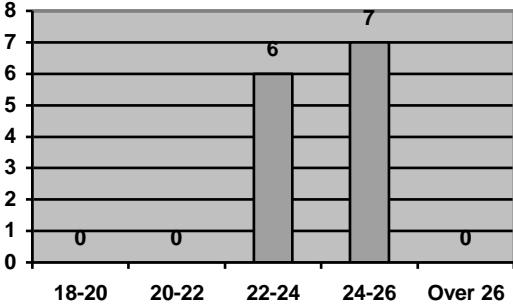
Number of respondents : 13

Section A: Respondent information

1. What is your age range?

Purpose: To get know about the respondent age range.

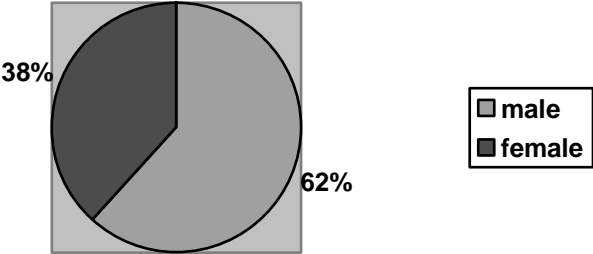
Age range	18-20	20-22	22-24	24-26	Over 26
Result	0	0	6	7	0



2. What is your gender?

Purpose: To get know about the respondent gender.

Gender	male	female
Result	8	5

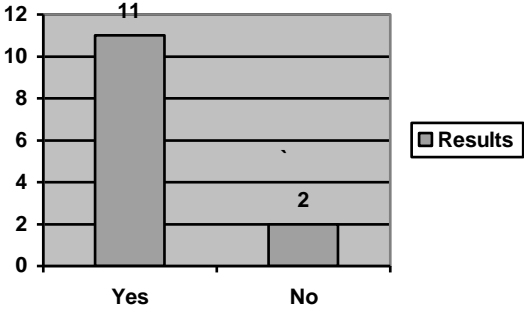


Section B: User acceptance questionnaire

3. I liked the interface of the system.

Purpose: To know about whether user like the design of the system or not.

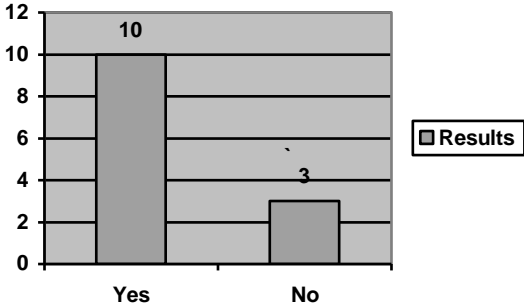
	Yes	No
Results	11	2



4. The interface of this system was pleasant to use.

Purpose: To know about whether the system interface was suitable for the system or not.

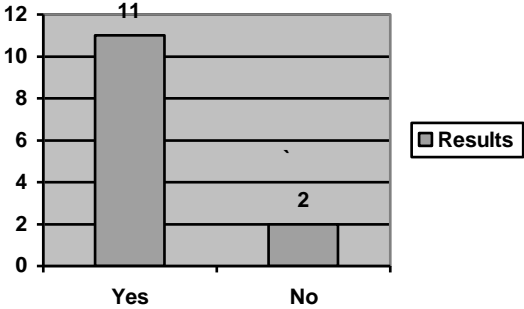
	Yes	No
Results	10	3



5. This system has all the functions and capabilities that I expect it to have.

Purposed: To know about whether the system met the user requirements or not.

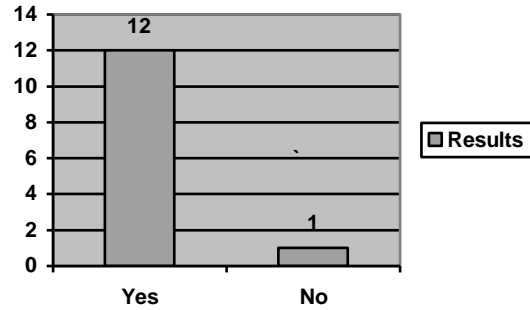
	Yes	No
Results	11	2



6. It was simple to use this system.

Purposed: To know about whether the system was easy to use or not

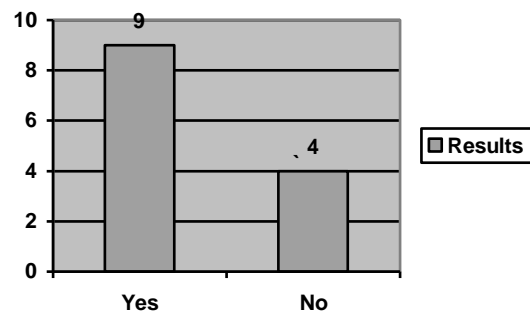
	Yes	No
Results	12	1



7. It was easy to find the information I needed.

Purposed: To know about whether the sharable learning contents provided enough information to user or not.

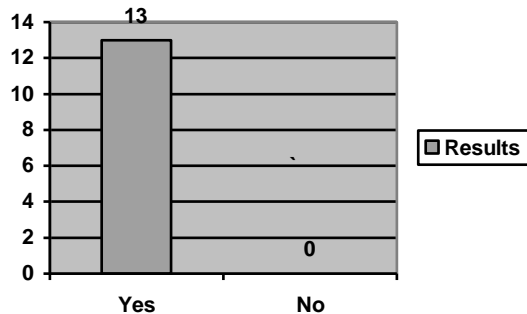
	Yes	No
Results	9	4



8. It was easy to learn to use the system.

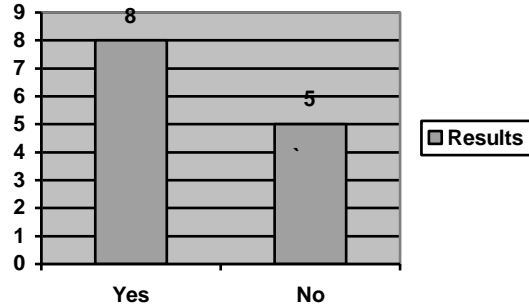
Purposed: To know about whether a new user easy to understand the use of the system or not.

	Yes	No
Results	13	0



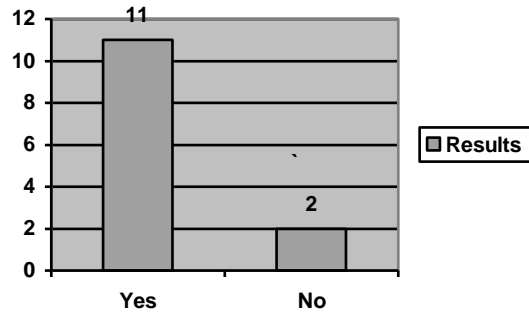
9. The information provided by the system was easy to understand.  
 Purposed: To know about the information provided was easy to understand or not.

	Yes	No
Results	8	5



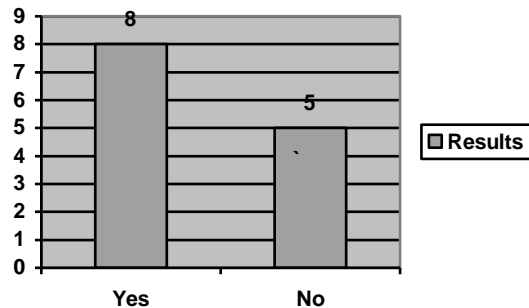
10. I felt comfortable using this system.  
 Purposed: To know about whether user felt comfortable to use the system or not.

	Yes	No
Results	11	2



11. The system gave error messages that clearly told me how to fix problems.  
 Purposed: To know about the system provided enough alert message to user or not.

	Yes	No
Results	8	5



12. Overall, I am satisfied with this system.

Purposed: To know about the user satisfaction to the system.

	Yes	No
Results	12	1

