



## **ASSIGNMENT NO 2**

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### **Subject**

**Software Quality Eng**

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## Case study:

Most people don't think about the process of learning to read until they decide to start teaching their own children at home.

Contrary to what some people believe, learning to read is not a 'natural' process that happens all on its own. It's a complex one that requires the proper teaching of various skills and strategies, such as phonics (knowing the relationship between letters and sounds) and phonemic awareness.

The good news is that although reading itself is a complex process but A company named JSolutions want to make software for kids that will be helpful for the research shows kids learn to read when they are able to identify letters or combinations of letters and connect those letters to sounds So In order to teach kids how to read and make it a positive and rewarding experience and also to learn basic like English alphabets and numbers based on their selection of subject and child's previous record of know what he know about Alphabets and numbers however it level will also be notice and child will only able to select whether the number or alphabet shown on screen it same as number or alphabet he heard from the speaker. Child can only select the answer as it is true or false. The basic purpose of this exercise is that child can reorganization of Alphabets and numbers will become accurate after this activity.

Teaching method will be helping the child not only displaying picture of word and teaching it through speaker but it also teaches the child with help of games and some other interesting method that catches their attention now it depends whether imagination of these interesting methods can turn into reality or not.

There are few restrictions about the system is that at first child whole record will be saved like name (children may have same name so system must add a unique number so both can be recognized differently), id (assigned by system and must not be same with even a single child) and age (that must be above 3). It also saves the previous records. Parent can choose the subject. For test parent can also select the level of test.

## Strong robust equivalence class partitioning:

### Function 1

Record\_Plus(((Name==get\_record())&&(Id==Getid())&&age>=3)

Already registered children with no age info (This function is to enhance the record with age)

Name	ID
Adeel	1
Raheel	2
Ali	3
Kazim	4
Ahmed	5

### Test Case

Test case	Name	ID	Age	Expected Output
1	Adeel	1	2	Not Accepted
2	Raheel	2	1	Not Accepted
3	Ali	3	-2	Not Accepted
4	Kazim	4	1	Not Accepted
5	Ahmed	5	0	Not Accepted
6	Ahmed	1	3	Not Accepted
7	Kazim	2	3	Not Accepted
8	Raheel	3	3	Not Accepted
9	Anjum	4	3	Not Accepted
10	Adeel	5	3	Not Accepted
11	Kazim	0	1	Not Accepted
12	Kashif	6	2	Not Accepted
13	Adeel	0	1	Not Accepted
14	Raheel	8	1	Not Accepted
15	Ali	7	1	Not Accepted
16	Kazim	6	1	Not Accepted
17	Ahmed	-1	50	Not Accepted
18	Adeel	1	3	Accepted
19	Raheel	2	4	Accepted
20	Ali	3	4	Accepted
21	Kazim	4	3	Accepted
22	Ahmed	5	4	Accepted

### Function 2

Select\_subject (subject=="eng" || subject=="math")

### Test Case

Test case	Value subject	Expected Output
1	Urdu, sci etc	Invalid
2	Eng	Valid
3	Math	Valid

### Function 3

Select\_test\_level((level<=10 && level>=1)&& (subject=="eng" || subject=="math"))

#### Test Case

Test case	Value level	Value subject	Expected Output
1	0	Eng	Invalid
2	11	Math	Invalid
3	1	Math	Valid
4	10	Eng	Valid
5	6	Sci	Inalid
6	6	Urdu	invalid
7	0	Sci	Invalid
8	11	Sci	Invalid
9	5	Eng	valid

### Git repository

<https://github.com/BSE181034/Software-Quality-eng#software-quality-eng>

### Evaluation

<u>Checklist</u>	<u>Marks</u>
Neatness	
Word document	
PDF document	
Git repository	
Team work	
Daily work (from 25 Nov-to 30 Nov)	
Neatness	