

Unit 5 – Controlled assessment



Name – Jack Maguire

Class – Year 11F

Introduction

Clarendon High School is planning a ski trip to Chamonix, France, next April. The trip is being organised by Mr Walsh. This is the first time the school has planned such a trip. The trip will be open to pupils, from Year 8 to 14 and is suitable for all levels of skiing ability for example beginner, intermediate and advanced.

Task

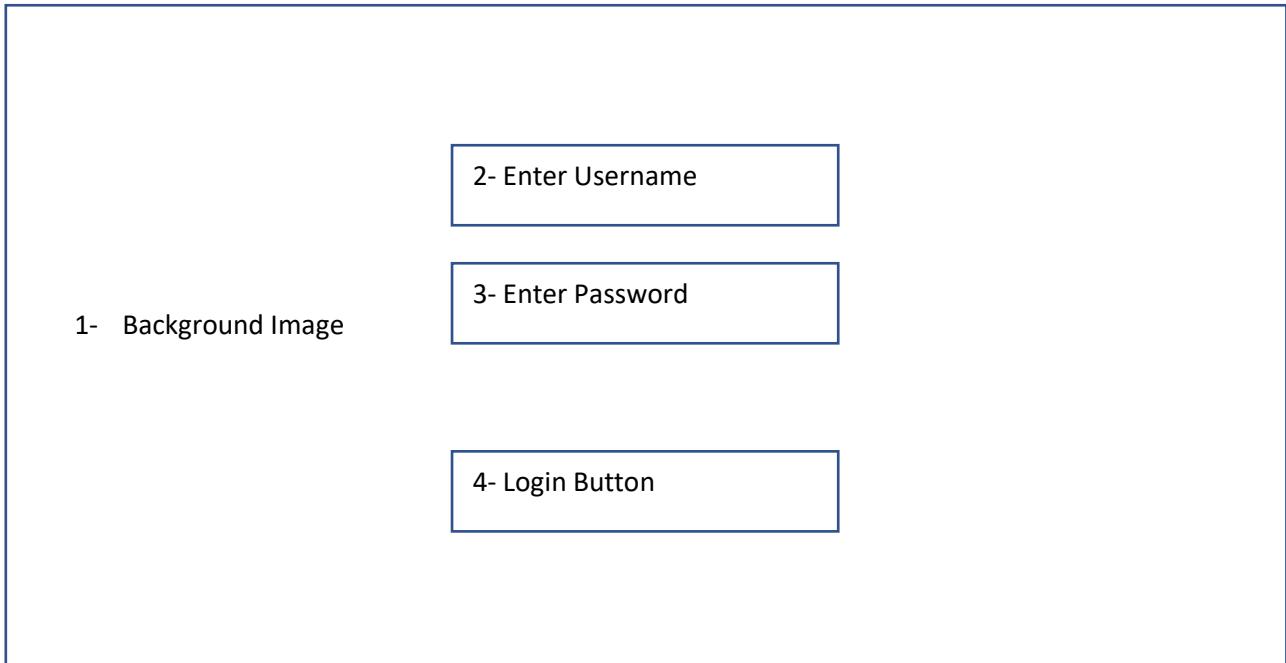
Mr Walsh requires a way to decide which group to assign each pupil to. This will be on the basis of data gathered during lessons at dry ski slopes and from several questions to assess pupils' awareness of ski safety e.g., appropriate clothing, necessary equipment, injury prevention. I will design and build a program solution that will allow Mr Walsh to assign pupils to each specific ski groups.

User Requirements

1. *A staff logon screen*
2. *A facility to add pupil details*
3. *A set of quiz questions to measure the pupil's knowledge of the ski safety training*
4. *A facility to enter 5 ski slope times for each pupil*
5. *A display of the average time for each pupil*
6. *A list of pupils in each group, given a group level*
7. *A list of pupils with their contact numbers*
8. *A list of pupils who have an allergy*

Design

FrmLogin



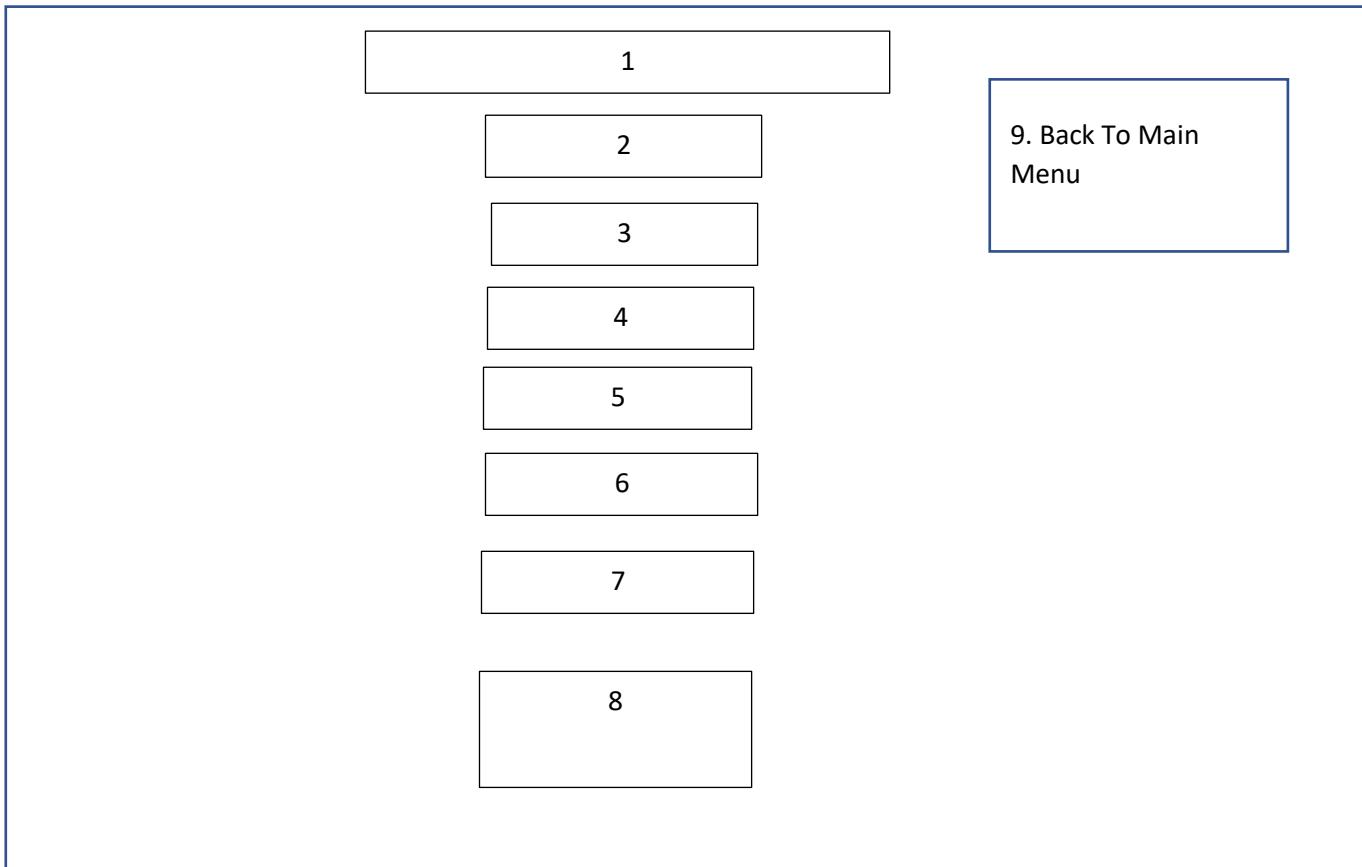
GUI Object No.	Description of Purpose
1	This is a background image/ wallpaper to give the program a better aesthetic.
2	This is where the user enters their username, this also contains text “Enter Username.”
3	This is where the user enters their password, this also contains text “Enter Password.”
4	This is where the user clicks to login to the program.

FrmAddPupil

1. Full Name	8. Back To Main Menu
2. Class	
3. Phone Number	
4. Parent Names	
5. Allergies	
6. Emergency Contacts	
7. Add Pupil	

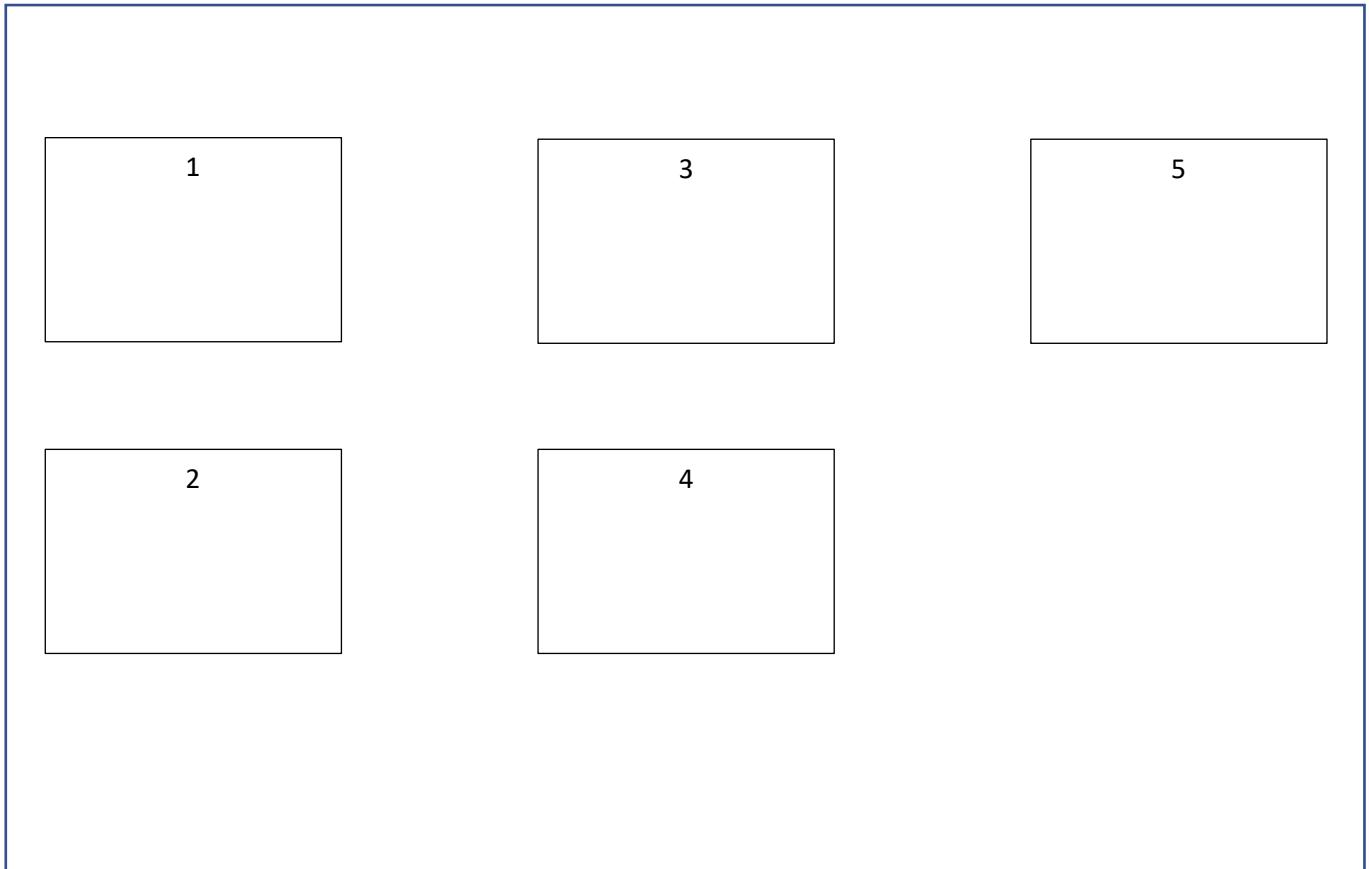
GUI Object No.	Description of Purpose
1-6	These contain what information the user needs to enter.
7	This is a button that will add the pupil to your file.
8	This is a back to menu button allowing the user to return to the login page after the pupil is added.

FrmAddPupils



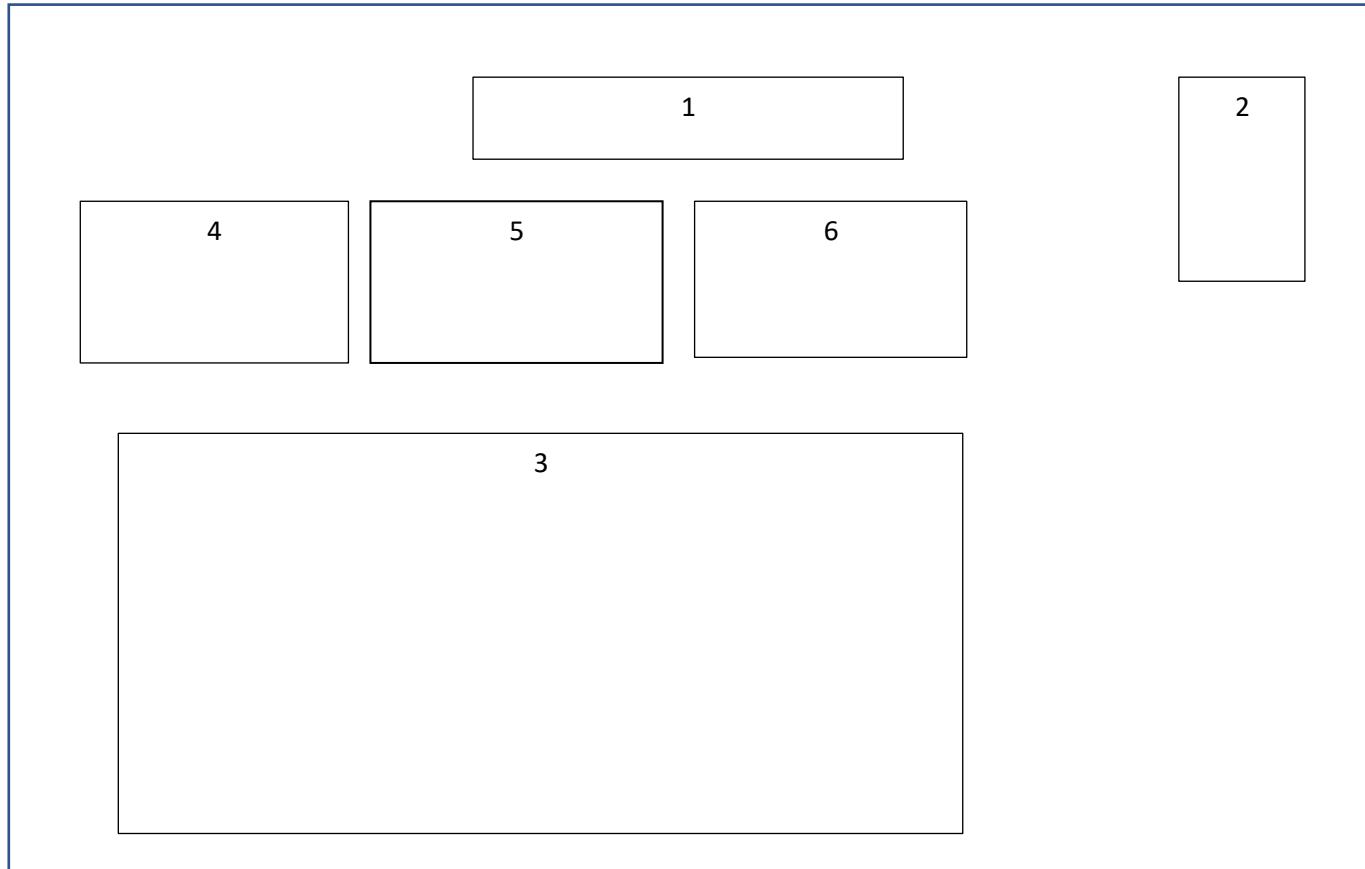
GUI Object No.	Description of Purpose
1	This is a label which is the title of the page
2	This is a combo box which you have a dropdown menu to choose the pupil that you want to add the times for
3-7	These are textboxes in which the user enters the five ski times
8	This is a button to save the pupils ski times
9	This is a back to menu button allowing the user to return to the login page after the pupil's ski times are added.

FrmMenu



GUI Object No.	Description of Purpose
1	This is a button to go to the Add Pupil Page
2	This is a button to go to the Add Times Page
3	This is a button to go to the Reports Page
4	This is button to go to the Quiz page
5	This is a button to go back to the login page

FRMREPORTS

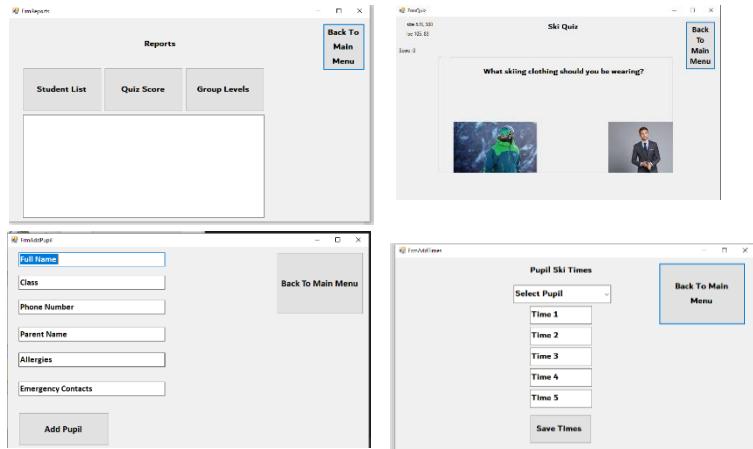
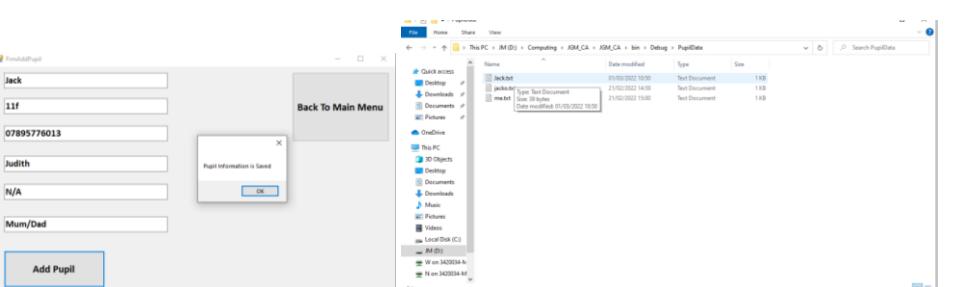
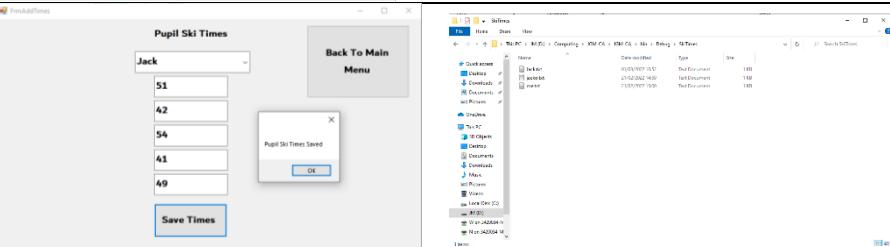


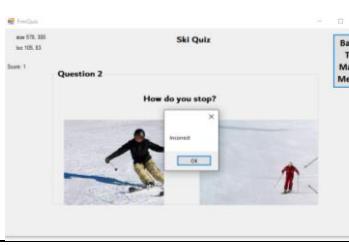
GUI Object No.	Description of Purpose
1	This is a label displaying the title of the page
2	This is a button to go back to the main menu
3	This is a listbox, it is the output for the reports page
4-6	This is a button giving the user the ability to save the students list, group level and the quiz score.

Testing

Test No.	What am I testing ?	Test Data	Pass/Fail
1	I am testing that the login page will allow the user access to the system when a correct password is entered.	jmaguire password	Pass
2	I am testing that the login page will allow the user top not access to the system when an incorrect password is entered.	jmaguire1 password1	Pass
3	I am testing that the menu of the system will take the user to the correct page when they click on the button.	Click Add Pupil Click Add Times Click Reports Click Quiz Log out	Pass
4	I am testing that the add pupil page works by adding the pupils name and other information and saving it to the system.	Full Name Class Phone Number Parents Names Allergies Emergency contacts	Pass
5	I am testing that the add times page will be able to select the pupil's name and add their times.	Select Pupil Time 1 Time 2 Time 3 Time 4 Time 5 Save Times	Pass
6	I am testing that the quiz page informs the user that they have selected the correct answer.	Correct answer box clicked	Pass
7	I am testing that the quiz page informs the user that they have selected the incorrect answer.	Incorrect answer box clicked	Pass
8	I am testing that the reports page will work and take the user to the correct page.	Student List Quiz Score Group Level	Pass

Evidence

Test No.	Evidence
1	 A screenshot of a Windows login window titled 'Windows'. It shows two input fields: 'jmaguire' and 'password'. Below the password field is a message 'Welcome password correct'. A blue 'LOGIN' button is at the bottom. The background of the window is a photograph of a snowy mountain range under a green aurora borealis sky.
2	 A screenshot of a Windows login window titled 'Windows'. It shows two input fields: 'jmaguire1' and 'password1'. Below the password field is a message 'logon failed'. A blue 'OK' button is at the bottom. The background of the window is a photograph of a snowy mountain range under a green aurora borealis sky.
3	 Four screenshots of the TwinklPupil application. Top-left: 'Reports' screen with tabs for 'Student List', 'Quiz Score', and 'Group Levels'. Top-right: 'Ski Quiz' screen asking 'What skiing clothing should you be wearing?' with two images of people in ski gear. Bottom-left: 'Add Pupil' form with fields for 'Full Name', 'Class', 'Phone Number', 'Parent Name', 'Allergies', and 'Emergency Contacts', plus a 'Save Pupil' button. Bottom-right: 'Pupil Ski Times' form with dropdown 'Select Pupil' and buttons for 'Time 1' through 'Time 5', plus a 'Save Times' button.
4	 Two screenshots. Left: 'TwinklPupil' window showing 'Pupil Information is Saved' after entering 'Jack', '11f', '07895776013', 'Judith', 'n/a', and 'Mum/Dad'. Right: File Explorer showing a folder structure with files like 'back.kit', 'back.kit.bak', 'back.kit.mdb', and 'back.kit.log'.
5	 Two screenshots. Left: 'TwinklTimes' window showing 'Pupil Ski Times' for 'Jack' with times 51, 42, 54, 41, and 49, plus a 'Save Times' button. Right: File Explorer showing a folder structure with files like 'back.kit', 'back.kit.bak', 'back.kit.mdb', and 'back.kit.log'.

6	
7	
8	<p>The first screenshot shows three tabs: 'Student List' (selected), 'Quiz Score', and 'Group Levels'. Below the tabs, it displays 'jacko Parent Name' and 'me Class Parent Name'.</p> <p>The second screenshot shows the same tabs. Below the tabs, it displays 'Jack 11f Judith'.</p> <p>The third screenshot shows the same tabs. Below the tabs, it displays 'Average Time For me is 30' followed by a list of names: 'Beginner', 'Jack', 'Intermediate', 'jacko', 'Advanced', and 'me'.</p>

Evaluation

User Requirements	Evaluative Comment
A staff logon screen.	I have made a login screen that allows the user to login to the program. I think It is a good idea, however if I was to do it again, I would blank out the password.
A facility to add pupil details.	I have created a page that allows the user to add the details of all pupils that are going on the ski trip. I think it is good however, if I was doing it again I would have the user have to enter all the information page, at the minute the user can save with only all information entered.
A set of quiz questions to measure the pupil's knowledge of the ski safety training.	I have created a quiz page that allows each pupil to test their information on skiing, it will output their score at the end, telling them their score, it will be out of 8. If I was doing it again, I would gather more questions and also have better answers. I would also have the questions come up at random.
A facility to enter 5 ski slope times for each pupil.	I have created a page that will allow the user to enter 5 times for the selected student. I think it is good, however if I was doing it again, I would have it so that the user has to enter all 5 times, at the minute, the user can save the file with only one time in it, messing up the program.
A display of the average time for each pupil.	I have made a button that outputs the average time of each pupil. I am pleased with this work.
A list of pupils in each group, given a group level.	I have made a button that outputs the group level of each pupil.it takes the time of each pupil and places it in the beginner, intermediate or advanced category. I am pleased with this work.
A list of pupils with their contact numbers.	I have created a section on the add pupils page that allows the user to input the pupil's emergency contacts. I am pleased, however I would make the ability to add a second contact number.
A list of pupils who have an allergy.	I have created section in the add pupils page that allows the user to input the pupil's allergies. I am pleased with how well it works.

Future Developments of the solution

<u>Page Name</u>	<u>Future Developments</u>
FrmLogin	If I was to develop this page again I would: have a 'forgot password' system so that if the user forgot their password they could reset it. I would also add a special character like the asterisk.
FrmAddPupils	If I was do develop this page again I would have it so that the user can enter more than one phone number and also hase to enter all of the information on the page before saving the pupil's information.
FrmAddTimes	If I was developing this page again I would have it so that the user could enter the weather conditions on the slope so that it would be fair and then the pupils could be grouped accordingly.
FrmQuiz	If I was developing this page again I would add more questions and have the questions popping up at random times.
FrmReports	If I was developing this page again I would make the page more user friendly be having the teacher able to add comments onto the times and the quiz scores.

Evaluating my Testing

I began testing with a design of a test plan containing various scenarios of test data which I intended to implement into the system. The initial stage of testing began with a table, the headings included "Test Data", "Reason for Test" and "Expected outcome." These were alpha testing stages so it was not ready to be released to my client Clarendon High School. In my testing I discovered flaws and fixed them quickly. My testing aims to ensure that I fully and completely met the design, system and user requirements set out to me by Clarendon High School. I feel after extensive testing that my system fully complies and meets the user requirements set out to me. However, as I was limited on time, I was not able to thoroughly test every aspect of the system, this resulted in rough tests in some basic areas of the system.