In this lesson you will learn:
Understand the process of start up and shut down a computer.
How to begin and close a session of the computer.

Jyoti: Moz, the computers are switched off when not in use to save electricity. Can you please start the computer for us?
Moz: Ok. First let us check if the power supply switch is on.

Moz: Locate the Power button on the CPU and press it lightly.
Jyoti: The small light on the CPU is on and it is blinking!
Moz: The light indicates that the computer is switched on.

Start up of a computer
Computer is a machine which runs on electricity. Parts of a computer like CPU, monitor, mouse, keyboard require electricity. The 'Power' button on the CPU is used to switch on a computer.
Jyoti: There is nothing on the screen as the monitor is off.
Moz: Yes. Press the button on the monitor to switch it on. This button is called a toggle switch. To switch off the monitor you press it again.
Jyoti: Monitor too has a small light indicating that the monitor is on.
Moz: Correct. Most of the monitors have an on/off indicator light.

Tejas: Why is it talking so long to show the desktop?
Moz: It is getting everything ready for your use. This is called Booting.

CONCEPTS
Booting is the process of starting a computer.

Tejas: Where is the desktop with icons? What is this username on the monitor?
Moz: Ok. First answer a few questions. What do you do when someone rings the bell at your home?
Jyoti: We open the door and check who it is. We let them into the house only if we know the person.
Moz: Similarly a computer needs to check if you have permission to use the computer. The computer stores the names of users and compares it with the username you enter.

Moz creates usernames and passwords for Tejas and Jyoti.

Jyoti: I have entered the jyoti as the username, but now it asks for password. what is it?
Moz: Each username has a key which is called password. Only on entering the correct username and password, the computer can be used.
Jyoti: All students have their own username and password!
Moz: Correct. The username is also called login. Once you start the session, you are logged into the computer.

Tejas: Now that I have my own username and password, will Jyoti be able to see my files when she logs in?

Moz: Each user sees their own desktop with files saved by them.

Jyoti: I can now have different wallpaper on my desktop.

Tejas: What do I do once I finish using the computer?

Moz: Closing a session is called logout. You can log out from the computer using the logout icon. It is just like closing the door of your house when going out.

Tejas: Once I close my login, can others login to the same computer?

Moz: Yes. Everyone who has a username on the computer will be able to use the computer.

Jyoti: If we have finished using the computer, should we not shut it down to save electricity?

Moz: Yes. Select the Shut down option near the logout icon to turn off the computer. Please note that it takes some time to shut down.
Jyoti: The light on the CPU is off now. Let us switch off the monitor too.

Moz switches off the power supply after the shutdown procedure is complete.

**How to Shut down**

To shut down a computer select the Shut down option from the dialog box. The electric supply to the computer should be switched off only after lights on the computer go off.

Moz: Revise what you have learnt this year in the computer class and work on the projects.
Tejas: Moz, it was fun learning computers with you. Where are you going for the vacation?
Moz: Timbaktu. Find out where it is.
See you next year. Chin Chinaki...
After you have studied this lesson, you will be able to:
Start the computer, login, log off, and shut down the computer.

LESSON OUTCOME

SKILL How to Shut down

To shut down a computer select the Shut down option from the dialog box. The electric supply to the computer should be switched off only after lights on the computer go off.

Jyoti: What should we do now?
Moz: Revise what you have learnt this year in the computer class and work on the projects.
Tejas: Moz, it was fun learning computers with you. Where are you going for the vacation?
Moz: Timbaktu. Find out where it is. See you next year. Chin Chinaki...

Moz switches off the power supply after the shutdown procedure is complete.

Jyoti: The light on the CPU is off now. Let us switch off the monitor too.

1. Match the key to the lock.

2. Arrange the proper sequence for starting the computer, using it and shutting it down.

Switch on CPU power          Switch on Monitor
Session begins               Click on Log out
Computer session ends       Shut down computer
Enter Password              Enter Username
Switch off monitor and power

1.-----------------------------
2.-----------------------------
3.-----------------------------
4.-----------------------------
5.-----------------------------
6.-----------------------------
7.-----------------------------
8.-----------------------------
9.-----------------------------

Find out which word is formed by combining all the red underlined letters.

|   |   |   |   |   |   |
3. When should Suhas open the door? Why?

4. Unscramble the following words and match the columns:

<table>
<thead>
<tr>
<th>MERUASNE</th>
<th>SESSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>OGINL</td>
<td>LOGOUT</td>
</tr>
<tr>
<td>WPDAROSS</td>
<td>USERNAME</td>
</tr>
<tr>
<td>TGUOOL</td>
<td>LOGIN</td>
</tr>
<tr>
<td>NSISOSE</td>
<td>PASSWORD</td>
</tr>
</tbody>
</table>
1. Starting a game, playing and ending a game are similar to starting and ending a session on a computer. Play Educational Suite Gcompris games and observe the similarity.
   a. Educational Suite Gcompris

2. List the activities you do to get ready for the school. Just as you do several things before you start a day at the school, the computer also does several things before starting a session.

3. List the different activities you do after coming back from the school. Just as you do several activities, the computer also does several actions when you end a session.

4. Make a list of three objects that have a lock. How do you open them? can you use the key of one object to open the other? Why?

5. Take two keys and trace their outline on a paper. Note the similarities and the difference between the two keys.

Explore!
1. What happens when you enter username and password in capital letters? Now type in small letters, and observe what happens.
2. Where else is password concept used?
Begin the lesson by asking the students whether they have observed the teacher/family member start a computer. They would mention switching on the buttons, entering some word, following which the desktop is seen. Tell the students that you will now start the computer and that they should observe carefully what you do.

- Switch on the power, CPU and the monitor. (If you are using laptop, inform the students that it has to be charged for use. Demonstrate how the wire is connected and they can note that the battery is getting charged looking at a particular indicator). Ask them to note the light on the CPU near the power button. Tell them that pressing the button on CPU starts the computer. Ask the students to note if the monitor has a similar button and a light near it. Switch off this button and demonstrate that monitor is switched off. Now press it again to resume working. Tell the students that the switch on the monitor is called the toggle switch. (The location of these buttons can vary according to the kind of computer you are using).

- When the computer is ready, draw the students’ attention to the dialog box. Tell them that you are entering user name which in turn asks for password. Inform the students that password is the key and it has to be entered correctly. You may use the analogy of a piggy bank and a key to explain username and password. Emphasize that password has to be kept secret; so that others do not access, delete or misuse your important files.

- Inform the students that when the computer is not in use, monitor should be switched off to save electricity. You can now teach them how to log off from the computer. Explain that logging off does not switch off the computer, but allows other users of the computer to use it. Now demonstrate how to switch off the computers. Ask them to note that the lights on the CPU are switched off and only after this the power switch is turned off.

- Explain why it takes some time to start and shut down a computer. The booting process involves checking and starting the system. A similar check is done when the computer is shut down. Note that all activities have to be close before shut down.

- Summarize the procedure to start the computer and turn it off. Inform the students that they should do these operations only under the supervision of their teacher or family members.

Further Reading:
http://en.wikipedia.org/wiki/Logging_(computer_security)
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Projects for Class II

Project 1 (Lesson 2)
List at least two food preparations which are nutritious and healthy that you like. Find out the input for these. Find out the origin of the preparations like the country and region from where it came from. Narrate how they are prepared in the class.

Input

Output
Project 2 (Lesson 3)

Take a small ball.

- Bounce the ball with one hand and catch with another hand. The path of the ball from one hand to other should make the shape of V. Follow the path of the ball during the bounce and catch with your eyes. Repeat this exercise by reversing the bouncing and catching hand.

- Toss the ball from one hand to the other in inverted U shape. Follow the ball with your eyes. Repeat this exercise by reversing the tossing and catching hand.

Find out games that are played with balls (example: cricket, football). Find out the stretch exercises that are done before these games. Learn these stretches and share these with your friends.

Project 3 (Lesson 4)

Select one of the following places. List some of the items in this place and observe the arrangement of these items. Do you think they can be arranged in any other way? Draw a picture showing the place and items. Tell your class about the new arrangement.
Take a small ball. Bounce the ball with one hand and catch with another hand. The path of the ball from one hand to another should make the shape of V. Follow the path of the ball during the bounce and catch with your eyes. Repeat this exercise by reversing the bouncing and catching hand.

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Toss the ball from one hand to the other in inverted U shape. Follow the ball with your eyes. Repeat this exercise by reversing the tossing and catching hand.

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Project 3 (Lesson 4)

Library
Grocery shop
Kitchen in your house
Your study table
Post office

Project 4 (Lesson 5)
Using paint activities draw your family tree. Can you show any thing else that you know in the form of a tree? If yes, draw it and explain in the class.

ANIMALS
DOMESTIC
WILD
Project 5 (Lesson 6)

Using the four directional arrows draw the path/s from School to Jyoti’s house in the picture given below.
Hint: On the way to Jyoti’s house there is an icecream parlour, a hospital, and a library.

Project 6 (Lesson 7)

Preparing a Quiz using text editor: There are three steps in this project.
Step 1: Select one of the following topics. One of your text books will have the topic that you select. If it is not in any lesson find a book which has the topic from library.

- Animals
- Birds
- Plants
- Parts of a body
- Days of a week, months
- Food
- Types of houses
- Shapes and colours
- Weather
- Sources of water
- Solar system
- Measurements
- Indian Money
- Weights

Step 2: Open the lesson related to the topic. Pick some words related to the topic. (An example is given below).
Example: Topic selected - Shapes and colours
Shapes: Square, Triangle, Rectangle, circle
Colours: Red, Green, Yellow, Blue, White, Black, Orange
Step 3: Jumble up the selected words and prepare a quiz. The quiz can be fill in the blanks with missing letter or match the following or a crossword puzzle with the words, or simply the jumbled up words. Give an interesting title to the puzzle. Give instructions about solving the puzzle. Enter the puzzle in the computer using text editor. Save and Print the puzzle. Exchange the puzzles and solve them.

Title of the quiz: Shapes and Colours
Question: Find the names of shapes and colours from the following jumbled up words.

1. ERSUQA
2. TIRELGAN
3. WOLLEY
4. CLAKB
5. CLCIRE
6. EDR
7. ANGELCRE
8. ITHWE
9. ENGER
10. ANOREG
11. SEPHAS
12. LORUOCS
13. UELB

Project 7 (Lesson 8)
Explain about one of the following in the class.
1. Why is there a watchman at the gate of your school? What does the watchman at the gate of your school check while entering the school?
2. What do you need to get into a train or an aeroplane?
3. How is a (scooter or car or pick any) vehicle started and shut down?
4. What are the checks that you do for your cycle if it is not moving ahead?