10 Internet Telephony

In this chapter, you will learn about :
- *Describe the Internet*
- *State Volp protocol*
- *Download Skype*
- *Do audio and video calling using Skype*

INTRODUCTION

Internet is a global network of computers that connects multiple computers. Using the Internet, information can be shared in any part of the world as well as people can communicate with each other by sending text messages and by doing audio and video callings, etc. So, nowadays, Internet is a very popular medium of communication.

In this chapter, we will learn how we can do audio and video communication on the computer using the Internet.

AUDIO AND VIDEO COMMUNICATION

Internet, allows us to make audio and video communication by using various audio and video communication services, like Skype, Gtalk, Viber, We Chat, etc. Audio and video communication is possible on the Internet using VolP protocol. Let us first learn about VolP protocol.

VOLP PROTOCOL

VolP stands for Voice over Internet Protocol. It is used to transmit voice from one computer to another over the network, i.e. making telephone calls over the computer network. It converts analog voice signals into digital data and transmits the data over the network. VolP protocol helps the user to make real time audio and video calling over the Internet as well as audio and video conferencing.

Skype is the most popular communication service of the Internet that works on VolP protocol. Let us explore more about Skype.

SKYPE

Microsoft's Skype is a software which is used to send text, voice and video over the network. You can also share videos, photos and files of any size by using Skype. Skype is an Internet Telephony Service provider that offers free calling between computers.

To use Skype, you need to have the following equipments :
- Internet connection.
- Speakers and a Microphone of Headphone.

- A Webcam, if you want to make video calls.
- Skype software

The Skype software is available on the Skype website. When you visit the website you will see the following two versions of it :

- Skype for Windows.
- Skype for Mac.

DOWNLOADING AND INSTALLING SKYPE FOR WINDOWS

Step 1 : Open any browser and type **www.skype.com** in the Address bar, The Skype home page will appear.

Step 2 : Click the **Get Skype for Windows** desktop and select the option **Download Skype**.
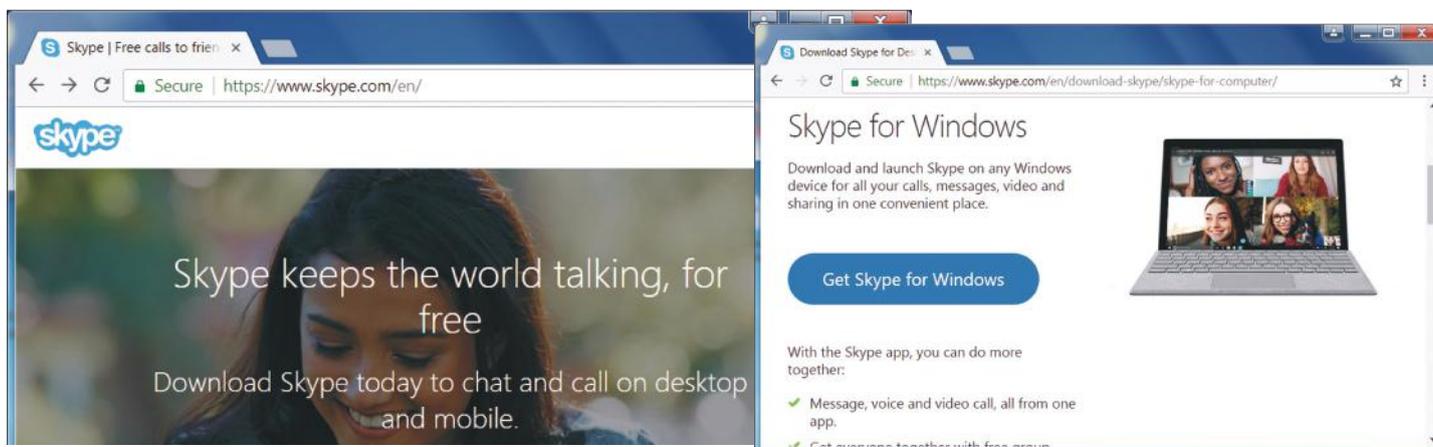
Downloading Skype

Step 3 : Open the **SkypeSetup.exe** file. The **File Download** message box will appear. Click the **Run** button.
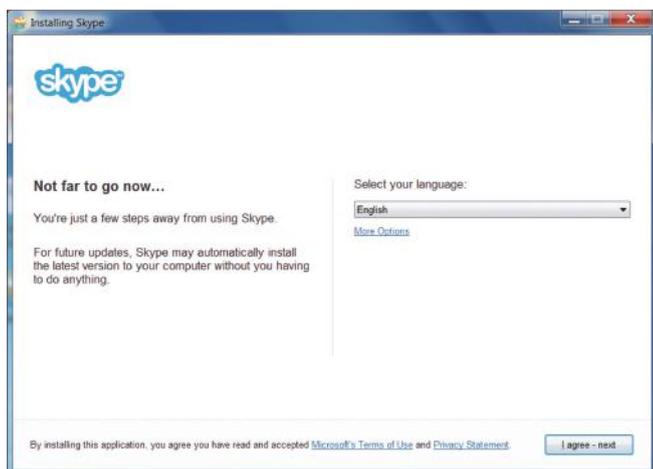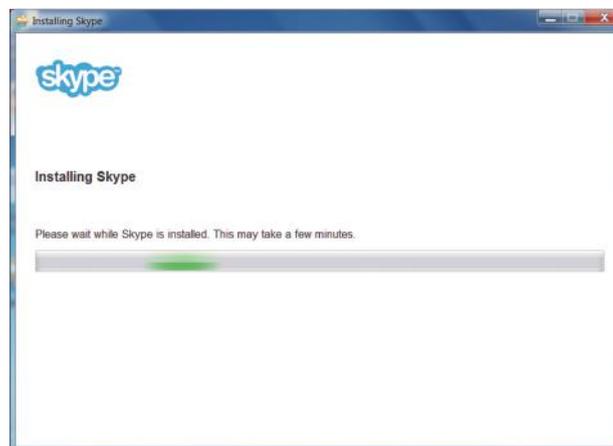
Step 4 : The Installing Skype window will appear on the screen. Select is select your language box **language** and click the **I agree-next** button to continue the installation.

Installing Skype Window

Step 5 : After the installation click on registration button. A Registration Form will appear as shown. Fill the complete registration form.
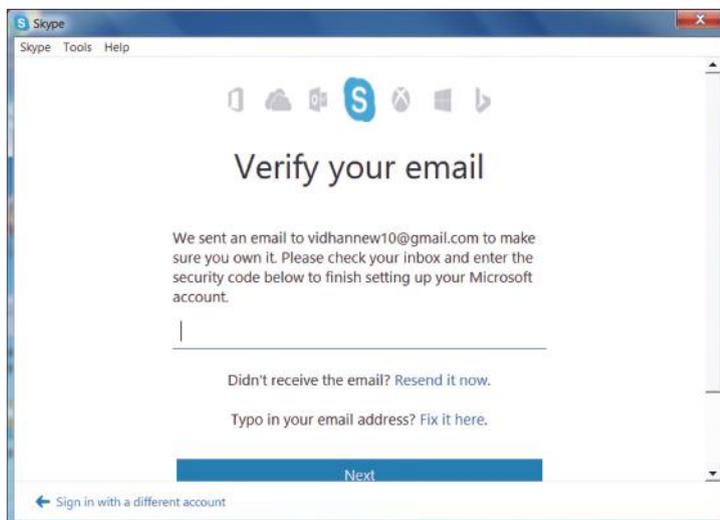
Registration Form

Verify your email

Step 6 : Now see the security code in your inbox and type here and click Next.

SIGNING IN SKYPE

To sign in into Skype account, follow the given steps :

Step 1 : Type the **Username** and **Password** and click **Sign in** button.

Sign in Window
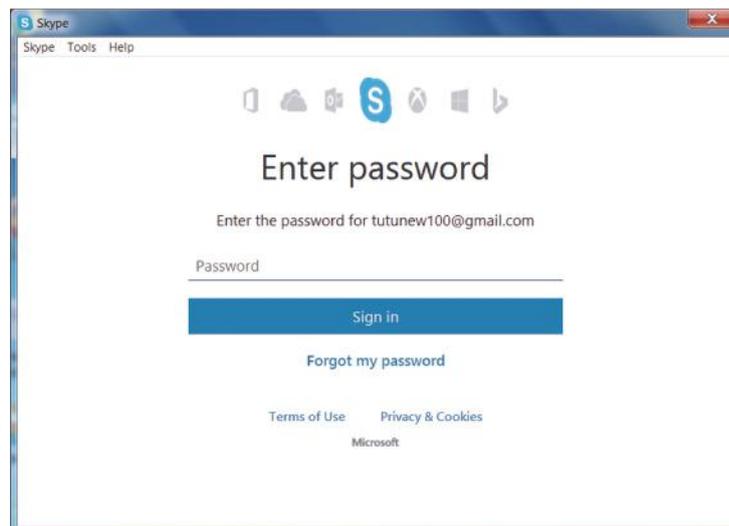
Audio and Video Settings

Step 2 : A new window will open as shown, here you can check your Sound and Video Settings. After making settings, click the Continue button.

Step 3 : A Skype window showing Setting up Skype will appear. Here you can Add Profile Picture, Click Continue button after setting the profile picture.
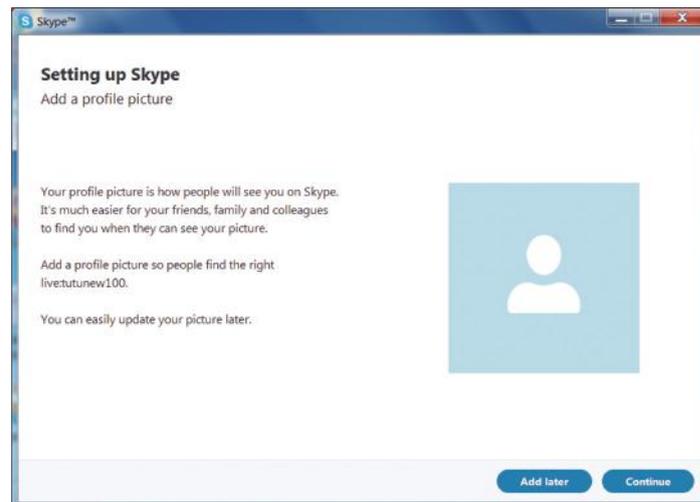
Skype Window

Adding Profile Picture

Step 4 : The following next window will appear, showing profile picture and your Skype name. Click the Start using Skype button.

Step 5 : Your Skype account window will appear on the screen.
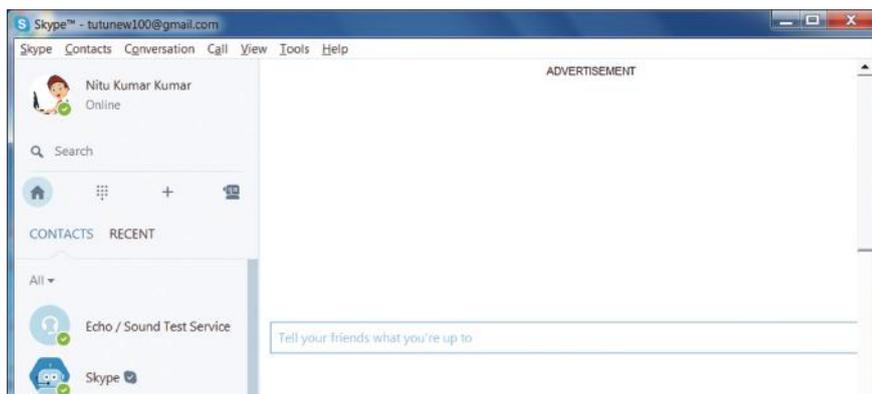
Adding Contacts in Skype

You can add contacts in Skype by using the following steps :

Step 1 : Click Add a Contact button or select Contacts ⟶ Add Contact option.

Step 2 : The **Add Contact** dialog box opens. Type the email, phone number and name in Add Contact dialog box.

Step 3 : Click the **Send Request** button after the contact is added to your list.
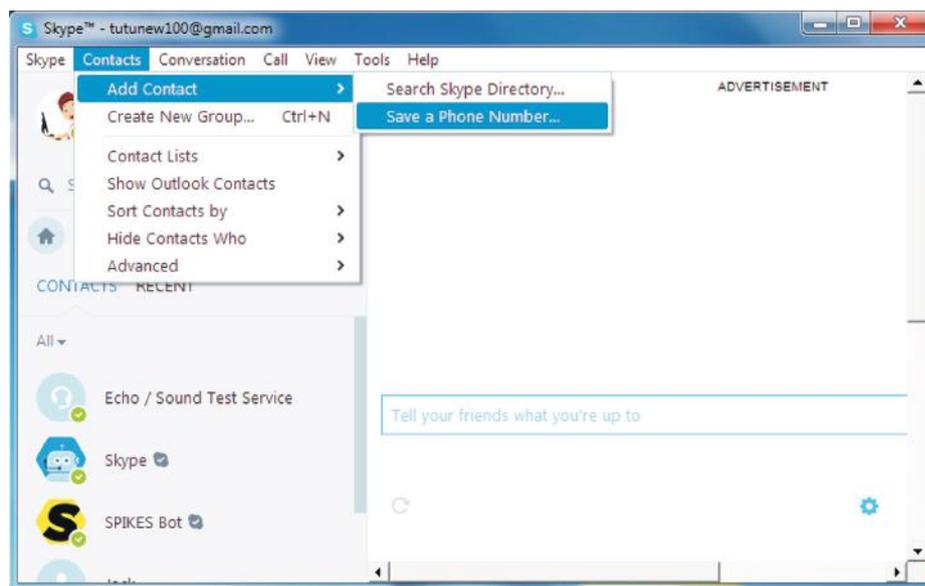
AUDIO/VIDEO CALLING BY USING SKYPE

To make an audio or video call on Skype, follow the given steps :

Step 1 : Open the Skype window and sign in into an account.

Step 2 : Select a contact person to do video/audio call in the **Contacts** tab.

Step 3 : The contact's information will open in a pane on the right side of the window.

Click the Video Call button to make video call or Call Phone button to make the audio call.

Call Window

Step 4 : The Cell Window will appear.

Step 5 : Start your conversation. Click the End Call button when you are finished with your conversation.

SIGNING OUT FROM SKYPE ACCOUNT

To sign out from an account, follow the given steps :

Step 1 : Click the Skype tab. A drop-down menu appears.

Step 2 : Click the Sign Out.
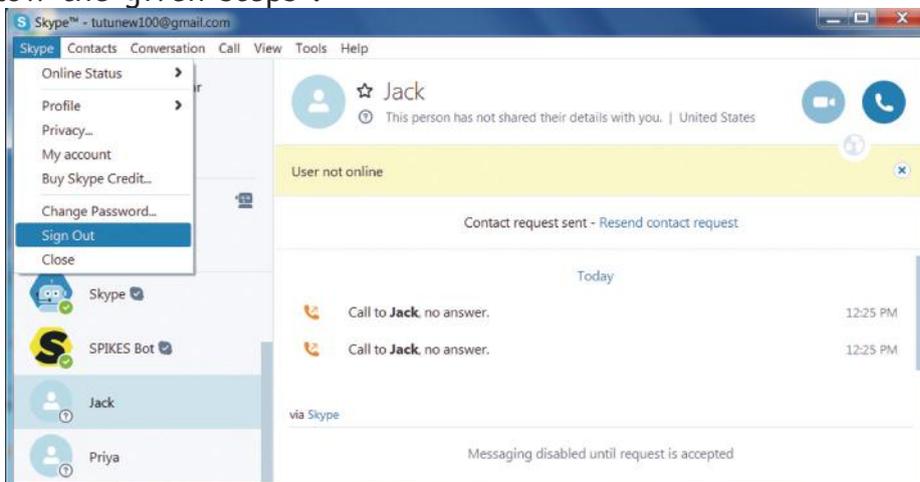
Points to Remember

- Internet is a global network of computers.
- Internet is a very popular medium of communication.
- Audio and video communication is possible on the Internet using VolP protocol.
- VolP is used for making telephone calls over the computer network.
- Skype is the most popular communication service of the Internet.
- Skype is an Internet telephony service provider that offers free calling between computers.

A. Tick (✔) the correct option :

1. Which company provides the communication service Skype?

   (a) Microsoft ⬤   (b) Apple ⬤   (c) Samsung ⬤

2. Which of the following is a communication software on the Internet?

   (a) Skype ⬤   (b) We Chat ⬤   (c) All of these ⬤

3. Which protocol converts analog voice singals into digital data on the Internet during communication?

   (a) FTP ⬤   (b) VolP ⬤   (c) SMTP ⬤

4. Which of the following communication services on the Internet works on VolP protocol?

   (a) Skype ⬤   (b) Gizmo ⬤   (c) All of these ⬤

B. Fill in the blanks :

1. _____ stands for Voice over Internet Protocol.

2. _____ is a global network of computers.

3. _____ is an Internet Telephony Service Provider.

4. _____ are set of rules for communication on the Internet.

C. Tick (✔) the correct statement and cross (✗) the incorrect statement :

1. We can do video communication over the Internet. ⬤

2. By using Skype, we cannot send text messages. ⬤

3. VolP protocol allows only audio conferencing. ⬤

4. Information can be shared by using the Internet. ⬤

5. Webcam is required for video calling. ⬤

D. Answer the following questions :

1. What are protocols?

2. How do we audio/video calling by using skype?

3. What is VolP?

4. What are the features of Skype?

5. How do you add contacts to the list in the Skype?

ACTIVITY

• Visit the lab to do the following tasks :

1. Create an account in Skype.

2. Sign in with your username and password.