



Information & Communication Technology

Grade 11

THE INTERNET AND THE ELECTRONIC MAIL



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❖ Internet

A collection of computer networks around the world. It is the fastest way to communicate information around the world. (**Information Super Highway**)

The Internet Society is a non-profit organization called **The Internet Society**, which deals with Internet usage policies and protocol.

When a computer is connected to the Internet, it also becomes a computer that belongs to the Internet.

❖ URL – Uniform Resource Locator

- Hypertext Transfer Protocol (HTTP) is used to transmit information between computers in the Internet.
- The Internet contains a huge amount of information. The main service which provides this information is the World Wide Web (www)
- The method used to uniquely identify various resources in web sites is the Uniform Resource Locator (URL).

Activity: 01

1. The Internet is
.....
2. Fill in the blanks (WWW / Internet / URL / HTTP)
 - One of the best information source in the world
-
 - The protocol used to transmit information between computers on the Internet
-
 - The main service provider of information on the Internet
-
 - The method used to uniquely identify the various resources available on a website
-

❖ Parts of a URL

Name following separated parts of given URL

http: // www . gov.lk / English / exam.html

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In a Uniform Resource Locator, it is a must to have, from HTTP protocol to Domain name.

Eg :-

http://www.moe.gov.lk – Education Department

http://www.nie.lk – National Institute of Education

http://www.doenets.lk – Sri Lanka Examination Department

❖ IP (Internet Protocol) ලිපිනය

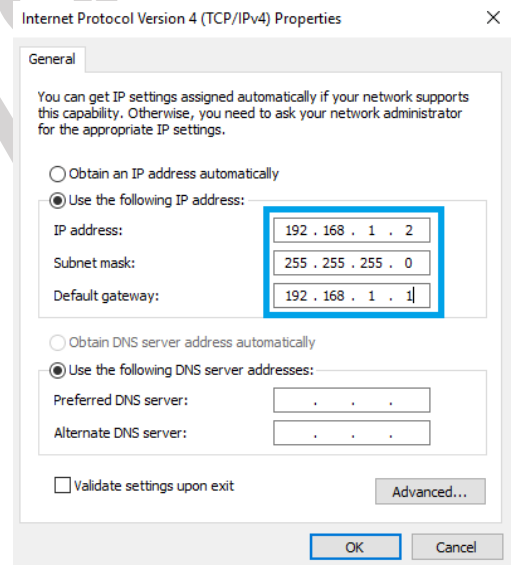
Every computer connected to the Internet identifies uniquely by IP address.

The value from 0 to 255 separated by a dot (“.”)

There are four categories.

- This is called “Dotted Decimal Notation”

Eg :- 168.1.5
 10.15.25
 105.2.105



- IP addresses are assigned by the ISP (Internet Service Provider). ISP,

.....

.....

.....

Activity: 02

3. The IP Address is

.....
.....

Eg: IPV4 - 192.168.78.5 (From 0 to 255 only)

4. Select invalid from flowing IPV4 addresses.

192.255.255.5

192.255.78.256

10.256.256.255

192.455.168.255

5. Examples of Internet Service Providers in Sri Lanka are:

.....
.....
.....

❖ Domain Name

The domain name gives an identity to every website on the Internet.

<http://www.moe.gov.lk> Domain name of this URL,

.....

- .gov represent Government ,
- .lk represent Sri Lanka

The domain at the right - most corner of a domain name is called the Top Level Domain.

<http://www.moe.gov.lk> Top Level Domain name of this URL,

.....

The domain name gives us an insight about the field or the country to which the website belongs

Activity: 03

6. is the unique identity of a web site in the internet.
(Domain Name / Protocol)

Eg: nie.gov.lk (..... is the top level domain name)

7. Identify the field related to the domain.

Domain	Filed
.com	
.gov	
.edu	
.net	
.org	

8. Identify the country related to the domain.

Domain	Country
.lk	
.in	
.au	
.uk	

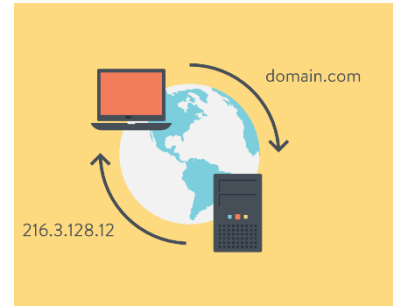
9. Fill in the following grid.

URL	Domain Name	Top level domain name
http://www.google.com		
https://ikman.lk/		
https://janelaya.com/ict-grade-06		
https://commentlanka.com/grade-12-git/		

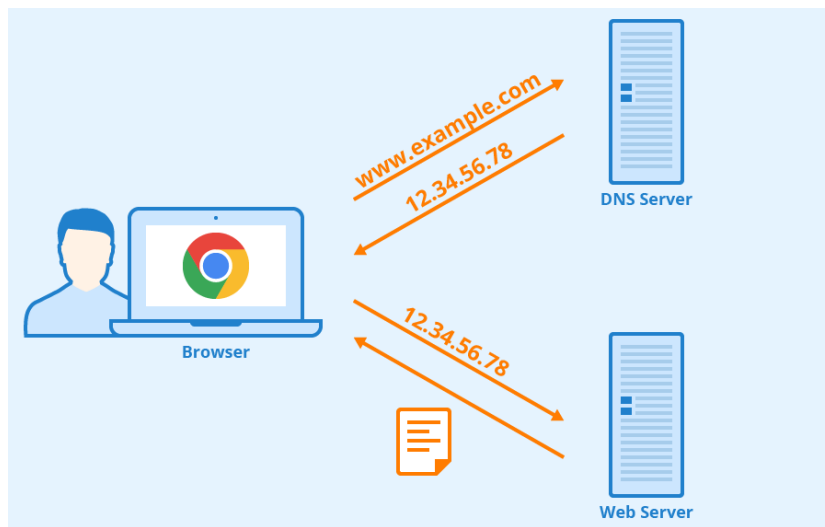
❖ How the internet works?.

- First user entering the URL to the browser to view a website
- The request must first be translated from the readable written address into an IP address that can be routed.
 - Websites actually have an IP address. It is made up of a set of numbers.
 - Humans, being different from computers, have difficulty in retaining lots of similar numbers in mind. Working with names is much easier for them and cause less errors.

- This translation is done by the Domain Name System (DNS).
- When the address is entered, to convert to IP address Referral to DNS.

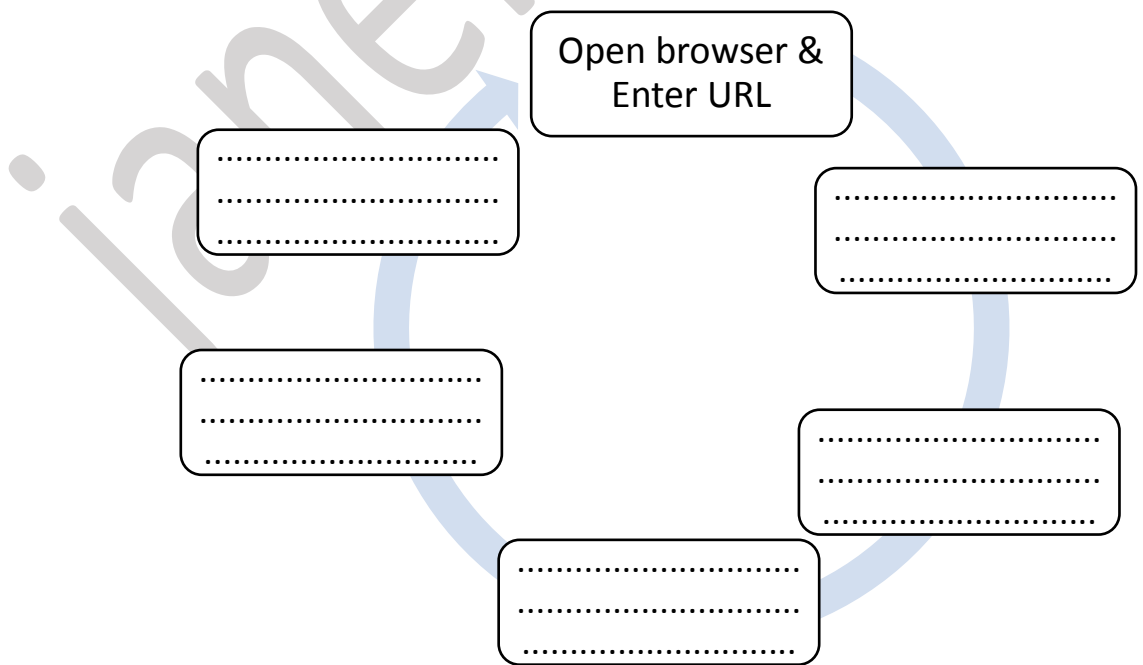


- Connects to the relevant website by the IP address provided by the DNS.



Activity: 04

10. Complete following chart.



ජනේලය
WINDOW

11 ශ්‍රේණිය
නිවන්ධන

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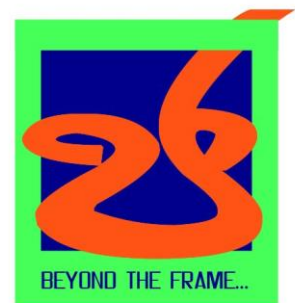
<https://janelaya.com/ict-grade-11/grade-11-ict-tutes/>

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