

Practical 1

a) Description about Wikipedia and its features

Wikipedia is a free, open content online encyclopedia created through the collaborative effort of a community of users known as Wikipedians. Anyone registered on the site can create an article for publication; registration is not required to edit articles. Wikipedia was the only non-commercial site of top ten.

b) Creating Account on Wikipedia

- Go to www.wikipedia.org and choose “English”

The screenshot shows a mobile browser interface with the following details:

- Top status bar: 9:56 AM, signal strength, 6.8KB/s, battery level at 71%.
- Address bar: en.wikipedia.org/wiki/Main_Page
- User info: Not logged in, Talk, Contributions, Create account, Log in
- Page title: Main Page (highlighted), Talk
- Page content:
 - Welcome message: Welcome to Wikipedia, the free encyclopedia that anyone can edit. 6,245,207 articles in English.
 - Featured article: Elizabeth Raffald (1733–1781) was an English author, innovator and entrepreneur. Born and raised in Doncaster, Yorkshire, Raffald went into domestic service for fifteen years, ending as the housekeeper to the Warburton baronets at Arley Hall,
 - In the news:
 - In American football, the Tampa Bay Buccaneers defeat the Kansas City Chiefs in Super Bowl LV (MVP Tom Brady pictured).
 - Aung San Suu Kyi, the State
- Left sidebar:
 - WIKIPEDIA The Free Encyclopedia
 - Main page, Contents, Current events, Random article, About Wikipedia, Contact us, Donate, Contribute, Help, Learn to edit
- Bottom right: A small image of Tom Brady in his Tampa Bay Buccaneers uniform.

- Click “Create account” on the upper right side of your browser.

The screenshot shows a web browser window with the following details:

- Header:** The top navigation bar includes links for "book", "Twitter", "Wikipedia", "Yahoo!", "News", "Popular", and a "+" button. A red arrow points to the "Create account" link, which is highlighted with a red box.
- Search Bar:** Below the header is a search bar with the placeholder "Search" and a magnifying glass icon.
- Content Area:** The main content area displays the Wikipedia homepage. It features:
 - The Wikipedia logo and the tagline "Everyone can edit."
 - A sidebar with categories like Arts, History, Society, Biography, Mathematics, Technology, Geography, Science, and All portals.
 - A "Recent changes" section with a green header and a list of recent edits.
 - An "In the news" section with a blue header and a list of recent news items, including a mention of Philip Seymour Hoffman.

- Enter your **account** information and the captcha, and click "Create Account"

The screenshot shows a mobile device interface with a header bar at the top displaying the time (9:57 AM), signal strength, battery level (71%), and network speed (3.9KB/s). Below the header is a sidebar with links: Learn to edit, Community portal, Recent changes, Upload file, Tools, Upload file, Special pages, Printable version, Languages, and a gear icon for settings.

The main content area is a registration form:

- Username**: (help me choose)
- Password**:
- Confirm password**:
- Email address (optional)**:
- To protect the wiki against automated account creation, we kindly ask you to enter the words that appear below in the box (more info):**
- CAPTCHA Security check**:

- Log in to your email and confirm your registration by clicking the link in the email.

The screenshot shows an email message from Wikipedia:

From: Wikipedia 9:59 AM
To: to me ▾

Subject: Hello Punit IT39,

Welcome to Wikipedia! You've joined the English-language version of the free encyclopedia that anyone can edit.

To confirm your email address, please open this URL in your browser:

<https://en.wikipedia.org/wiki/Special:ConfirmEmail/b4312fe0aacf8579684d0d71d51f4b8c>

This link expires at 04:29, 15 February 2021 (UTC).

Confirming your email address will allow you to:

- * reset your password via email
- * exchange emails with other Wikipedia editors
- * receive notifications about activity on Wikipedia relevant to you, such as when someone leaves you a message

If you don't see an email from MediaWiki Mail, check your spam or junk folder.

- To log in in the future, return to the main page and click "Log in" in the upper right corner of your browser

9:56 AM 6.8KB/s 71%

en.wikipedia.org/wiki/Main_Page

Main Page Talk Read View source View history Search Wikipedia

Welcome to Wikipedia, the free encyclopedia that anyone can edit. 6,245,207 articles in English

From today's featured article

Elizabeth Raffald (1733–1781) was an English author, innovator and entrepreneur. Born and raised in Doncaster, Yorkshire, Raffald went into domestic service for fifteen years, ending as the housekeeper to the Warburton baronets at Arley Hall,

In the news

- In American football, the Tampa Bay Buccaneers defeat the Kansas City Chiefs in Super Bowl LV (MVP Tom Brady pictured).
- Aung San Suu Kyi, the State

C) Creating you first page on Wikipedia

On the search results page for the term you enter, the option to "ask for it to be created" will appear. Click on it to be taken to the Wikipedia article wizard.

Punit maru - Search results en.wikipedia.org

Special page Search Wikipedia

Search results

Did you mean: **punt mark**

The page "**Punit maru**" does not exist. You can ask for it to be created, but consider checking the search results below to see whether the topic is already covered.

⚠️Warning: There is an ongoing **scam** targeting new users and Articles for Creation participants. Users pretending to be volunteers will ask for money or other forms of payment in exchange for assistance, or to have a draft or article published for them. Real Wikipedia editors and reviewers are all *unpaid volunteers*, and will **never** contact or solicit anyone for payment of any kind in exchange for assistance. If someone contacts you with such an offer, *it is a scam. Do not follow their directions or arrange to send any kind of payment.* Instead, please send a copy of the email, including headers, to paid-en-wp@wikimedia.org. See **this scam warning** for detailed information.

Note: Alternately, you can choose to “Practice in the community sandbox,” which is recommended for new users unfamiliar with publishing on Wikipedia.

Select the appropriate option to let Wikipedia know if you're a paid editor, you're writing about yourself, or someone you know/are close to, or if you're writing about a subject to which you have no connection.

9:56 AM 7.2KB/s 75% 

Help
Learn to edit
Community portal
Recent changes
Upload file

Tools
What links here
Related changes
Special pages
Permanent link
Page information
Wikidata item

Print/export
Download as PDF
Printable version

Languages
[বাংলা](#)
[Español](#)
[Ladino](#)
[नेपाली](#)

The **Articles for Creation (AfC)** process is designed to assist **any** editor create a new page as a **draft article**, which they can work on and submit for review and feedback when ready. The AfC process must be used by **non-registered** users and by those who do not yet have **sufficient editing experience** because these groups of editors are not permitted to create articles directly in Wikipedia's **mainspace**. The AfC process should also be used by anyone with a **conflict of interest**.

Writing an encyclopedic article from scratch is not easy. We recommend that you first **gain some experience** by adding material to articles that already exist, or by helping out with **other tasks**. You should read the page [Help:Your first article](#) to avoid common mistakes and save your hard work from being deleted. In some circumstances, it may be more appropriate to request a simple **redirect** to an existing article than to try to create a new one.

Creating an article

Before you start writing, here are some [things you should have in mind](#):

You will have to identify yourself so that Wikipedia can verify that you can be a page owner. Now you can start your editing your page

9:59 AM 8.3KB/s 74% 

Creating User:Punit IT39/sandbox - Wikipedia
en.wikipedia.org

User page Talk Punit IT39 Bell Talk Sandbox Preferences Beta Watchlist Contributions Log out

Main page Contents Current events Random article About Wikipedia Disclaimers Contact Wikipedia Mobile view Developers Statistics Cookie statement

Privacy policy About Wikipedia Disclaimers Contact Wikipedia Mobile view Developers Statistics Cookie statement

WIKIPEDIA The Free Encyclopedia

User:Punit IT39/sandbox

Wikimedia project Powered by MediaWiki

In the pop-up box that appears, select “Start editing” to begin writing your article in the appropriate field.

When finished with your edits, click “Publish” to save your article to draft. Being familiar with basic HTML can help you build your Wikipedia page.

The screenshot shows a Wikipedia user page for 'User:Punit IT39/sandbox'. The page title is 'User:Punit IT39/sandbox' and the URL is 'en.wikipedia.org'. The page content includes the following text:

User page [Talk](#) Read Edit View history [Search Wikipedia](#)

User:Punit IT39/sandbox

From Wikipedia, the free encyclopedia

hello I am Punit maru

Born : 28 June 2001

Born place : Mumbai

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Privacy policy About Wikipedia Disclaimers Contact Wikipedia Mobile view Developers Statistics Cookie statement

WIKIMEDIA project Powered By MediaWiki

D)Editing your page on Wikipedia

- Find the article that has a mistake (wrong information, spelling, etc.)

The screenshot shows a web browser window with the URL en.wikipedia.org/wiki/User:Punit_IT39/sandbox. The page title is "User:Punit IT39/sandbox". The content of the page is:

From Wikipedia, the free encyclopedia

hello I am Punit maru

Born : 28 June 2001

Born place : Mumbai

This page was last edited on 9 February 2021, at 04:31.

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At the bottom of the page, there are links to "Privacy policy", "About Wikipedia", "Disclaimers", "Contact Wikipedia", "Mobile view", "Developers", "Statistics", and "Cookie statement". There are also logos for "WIKIMEDIA project" and "Powered by MediaWiki".

Click on the “Edit” icon. Correct the mistake you have found.

Take a look again. Did you accidentally remove a word? Is there is anything else you could correct?



User:Punit IT39/sandbox

User page Talk



hello I am Punit maru

Born : 28 June 2001

Born place : Mumbai

Click on Show preview. It will give you the chance to take a look at the article with your edits without saving the edit.

Click Publish changes. When you edited the page and clicked Show preview, click Publish changes to save your edits.

The screenshot shows a Wikipedia edit page for a user's talk page. The toolbar at the top includes links for User page, Talk, Read, Edit, View, and various editing tools like Paragraph, A, Cite, Insert, and Omega. The main content area displays the user's name and a summary of their birth information. Below the content is a large disclaimer about the page's last edit and its license. At the bottom, there is a footer with links to Privacy policy, About Wikipedia, Disclaimers, Contact Wikipedia, Mobile view, and Developers.

User page [Talk](#) [Read](#) [Edit](#) [View](#)

Paragraph [A](#) [Cite](#) [Insert](#) [Ω](#)

User:Punit IT39/sand

From Wikipedia, the free encyclopedia

hello I am Punit maru

Born : 28 June 2001

Born place : Mumbai |

This page was last edited on 9 February 2024, at 11:45 (UTC).
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apply. By using this site, you agree to the [Terms of Use](#) and [Privacy Policy](#). Wikipedia® is a
trademark of the [Wikimedia Foundation](#), a non-profit organization.

[Privacy policy](#) [About Wikipedia](#) [Disclaimers](#) [Contact Wikipedia](#) [Mobile view](#) [Developers](#)

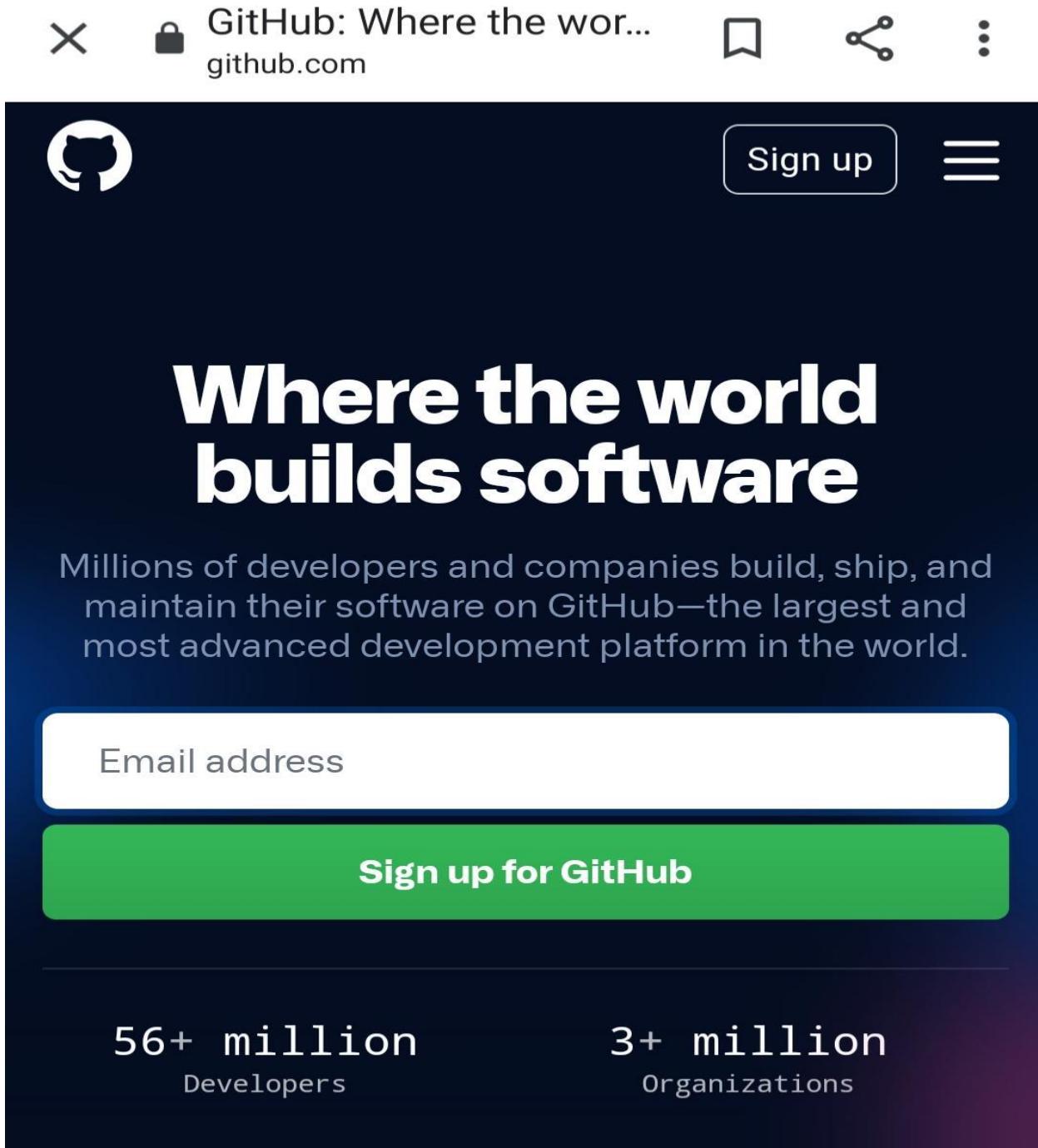
Always do your best to leave an edit summary to describe the changes you have made.

Practical : 2

Creating account, Repository on GitHub and cloning repository in GitHub

a) Creating account:-

1. Go to <https://github.com/>



2.Type a user name, your email address, and a password.

The screenshot shows the GitHub Join GitHub registration form. At the top, there's a header with a close button (X), a lock icon, the text "Join GitHub · GitHub", the URL "github.com", and social sharing icons for LinkedIn, Facebook, and Twitter. Below the header is a dark navigation bar with the GitHub logo and a three-dot menu icon. The main form area has a light gray background. It starts with a "Join GitHub" button. The first field is "Username *", which contains "PUNITMARU55" with a green checkmark. The second field is "Email address *", which contains "punitmaru17@gmail.com" with a green checkmark. The third field is "Password *", which contains "....." (represented by five dots). Below the password field is a note: "Make sure it's at least 15 characters OR **at least 8 characters including a number and a lowercase letter**. [Learn more](#)". The fourth section is "Email preferences", which includes a checked checkbox for "Send me occasional product updates, announcements, and offers.". The final section is "Verify your account", which is currently empty.

Join GitHub

Username *

PUNITMARU55

Email address *

punitmaru17@gmail.com

Password *

.....

Make sure it's at least 15 characters OR **at least 8 characters including a number and a lowercase letter**. [Learn more](#).

Email preferences

Send me occasional product updates, announcements, and offers.

Verify your account

3. Click the green Create an account button. It's below the form.
4. Complete the CAPTCHA puzzle. The instructions vary by puzzle, so just follow the on-screen instructions to confirm that you are a human.
5. Click the Verify email address button in the message from GitHub. This confirms your email address and returns you to the sign-up process.
6. Select your preference and submit.

You're officially a part of the
community

Inbox



GitHub 3 days ago
to me ▾

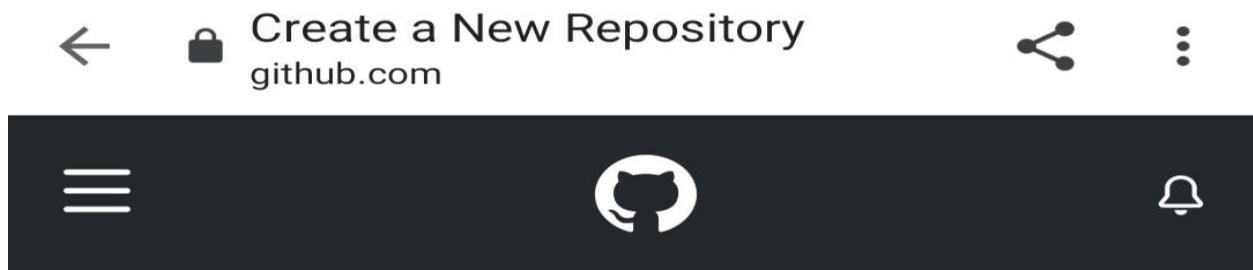


Let's get started, @PUNITMARU60

Welcome to GitHub. You're the newest member of a growing community of people who learn, share, and work together to build software. We're so excited you're here.

B) Creating Repository :

Click the new repository button in the top-right. You'll have an option there to initialize the repository with a README file, but I don't.



A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

Create a new repository

Owner *



PUNITMARU60 ▾

/

Repository name *

Project

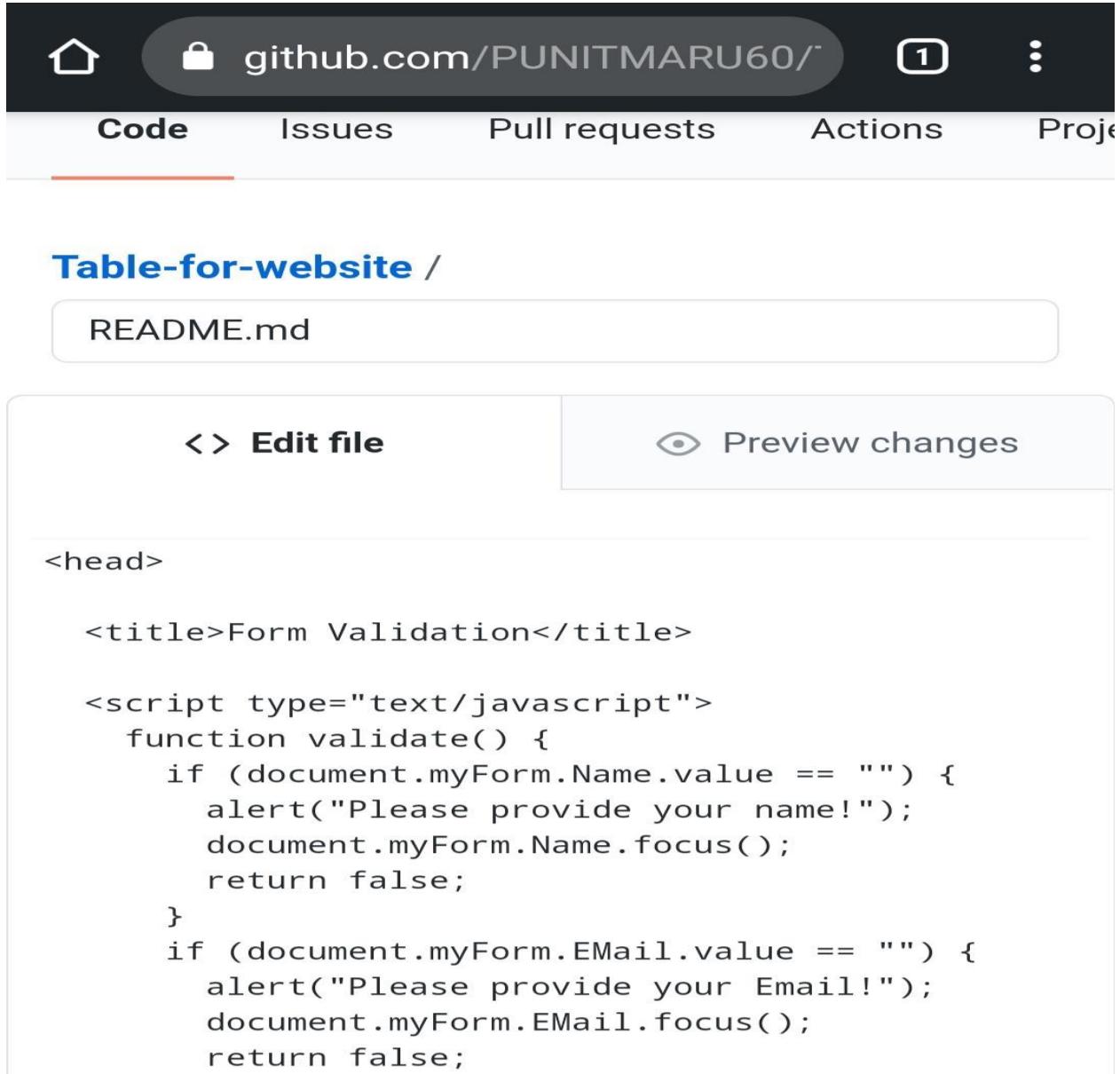


Great repository names are short and memorable. Need inspiration? How about **miniature-octo-winner**?

Click create repository.

Congratulations! You've successfully created your first repository, and initialized it with a README file.

On the Edit file tab, type some information about yourself.



The screenshot shows a GitHub repository page for the user 'PUNITMARU60'. The top navigation bar includes links for Home, GitHub.com, Issues, Pull requests, Actions, and Projects. A red underline is under the 'Code' link. The main content area shows the 'Table-for-website / README.md' file. The file contains the following code:

```
<head>

<title>Form Validation</title>

<script type="text/javascript">
function validate() {
    if (document.myForm.Name.value == "") {
        alert("Please provide your name!");
        document.myForm.Name.focus();
        return false;
    }
    if (document.myForm.EMail.value == "") {
        alert("Please provide your Email!");
        document.myForm.EMail.focus();
        return false;
    }
}
```

Above the new content, click Preview changes.

Now you can see your code

The screenshot shows a GitHub repository interface. On the left, there's a file viewer for 'README.md' containing the following code:

```
<title>Form Validation</title> <script type="text/javascript"> function validate() { if (document.myForm.Name.value == "") { alert("Please provide your name!"); document.myForm.Name.focus(); return false; } if (document.myForm.EMail.value == "") { alert("Please provide your Email!"); document.myForm.EMail.focus(); return false; } if (document.myForm.Zip.value == "" || isNaN( document.myForm.Zip.value) || title > Form Validation < /title> < script type = "text/javascript" > function validate() { if (document.myForm.Name.value == "") { alert("Please provide your name!"); document.myForm.Name.focus(); return false; } if (document.myForm.EMail.value == "") { alert("Please provide your Email!"); document.myForm.EMail.focus(); return false; } if (document.myForm.Zip.value == "" || isNaN( document.myForm.Zip.value) || document.myForm.Zip.value.length != 5) { p.value.length != 5) { alert("Please provide a zip in the format #####."); document.myForm.Zip.focus(); return false; } if (document.myForm.Country.value == "-1") { alert("Please provide your country!"); return false; } return (true); } </script>
```

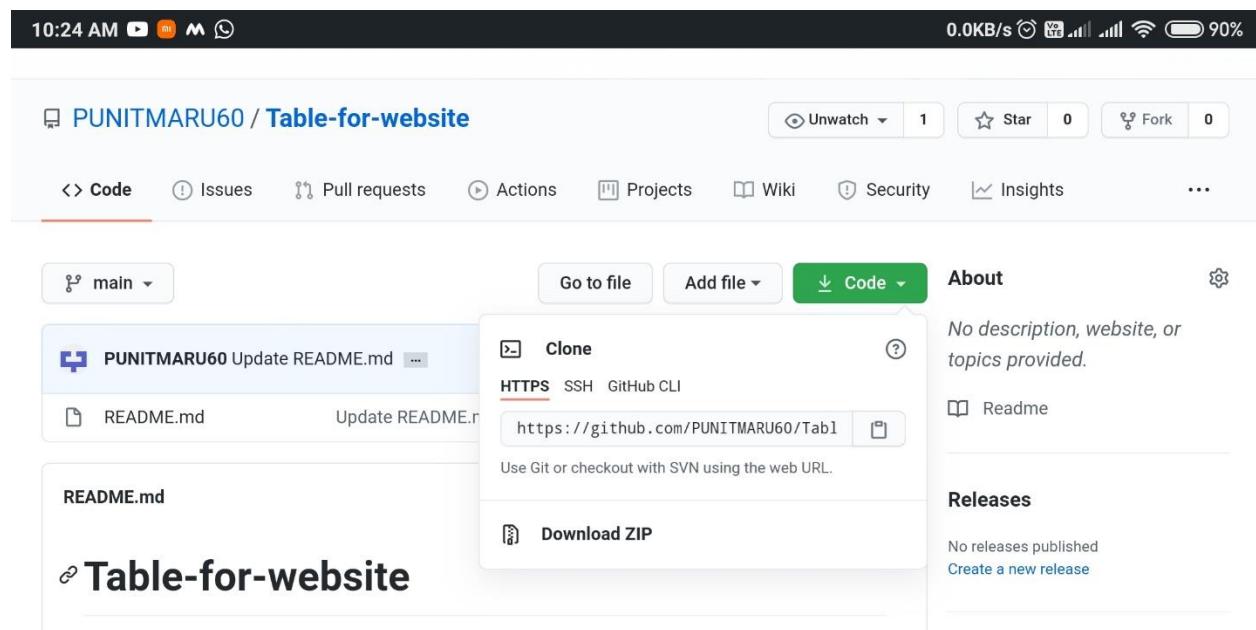
On the right, there are sections for 'Releases' (No releases published, Create a new release) and 'Packages' (No packages published, Publish your first package).

At the bottom of the page, type a short, meaningful commit message that describes the change you made to the file. You can attribute the commit to more than one author in the commit message.

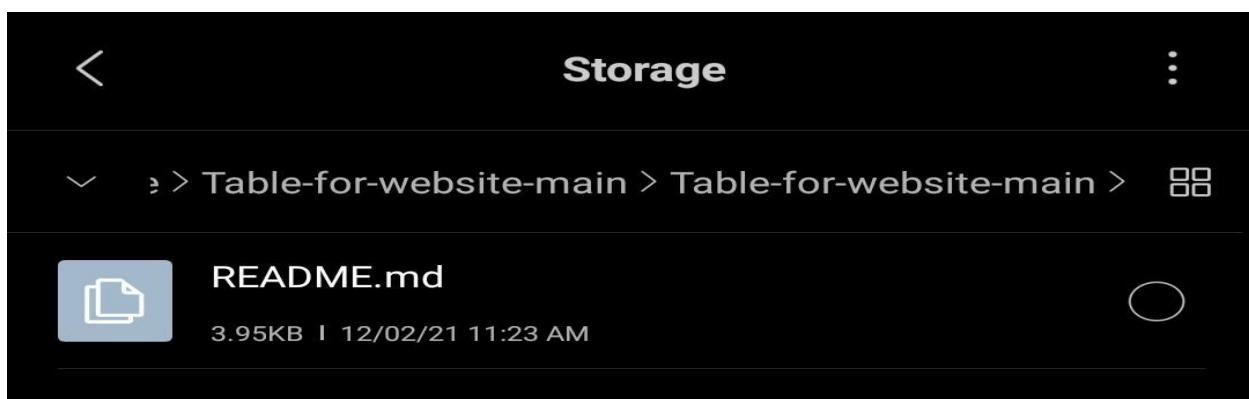
You have now created a repository, including a README file, and created your first commit on GitHub.

C) cloning repository

On the right side of the screen, below the “Contributors” tab, you’ll see a green button that says “Clone or Download.” Go ahead and click that. In the window that appears, select the “Clipboard” icon to copy the repo URL to your clipboard.



You can see here that the “Table- for-website - main” repo was successfully cloned to our “README.md” folder.



**Now open the file and check out Table for website code and output
Now you can start making edits to the directory using your favorite
text editor!**

Name	
EMail	
Zip Code	
Country	[choose yours] ▼

Name: Punit maru

Roll.no: 39 FYBSCIT

Practical:3

BASIC UNDERSTANDING ON FREE AND OPEN-SOURCE SOFTWARE

A) Describe Open Source Software with Example:-

Open-source software (OSS) is a type of computer software in which sources is released under a license in which the copyright holder grants users the rights to use, study, change, and distribute of software to anyone and for any purpose. Open-source software may be developed in a [collaborative public manner](#).

The Open Source Initiative (OSI), a global nonprofit founded in 1998, acts as a leading authority on OSS. Its definition of open-source software includes ten criteria, relating to matters such as:

- Software redistribution
- Source code availability and integrity
- Distribution and properties of licenses
- Derived works
- Anti-discrimination

Other popular open-source software is:

1. Mozilla's Firefox web browser
2. Thunderbird email client
3. PHP scripting language
4. Python programming language
5. Apache HTTP web server



B) Describe Free Software with Example :-

Free Software Although the terms are often used interchangeably, OSS is slightly different from free software. Both deal with the ability to download and modify software without restriction or charge. However, free software a concept developed in the 1980s by an MIT computer science researcher, Richard Stallman is defined by four conditions, as outlined by the nonprofit Free Software Foundation. These “four freedoms” emphasize the ability of users to use and enjoy software as they see fit.

- The freedom to run the program as you wish, for any purpose (freedom 0).

- The freedom to study how the program works, and change it so it does your computing as you wish (freedom 1). Access to the source code is a precondition for this.
- The freedom to redistribute copies so you can help others (freedom 2).
- The freedom to distribute copies of your modified versions to others (freedom 3). By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.

Example:-

- GIMP.
- VLC Media Player.
- Linux.
- Blender.
- GNU Compiler Collection.
- Python.

<u>Application software :</u>	<u>Operating Systems:</u>	<u>Programming Language :</u>
<input type="radio"/> 7-Zip	<input type="radio"/> Android	<input type="radio"/> Perl
<input type="radio"/> Eclipse	<input type="radio"/> Linux	<input type="radio"/> PHP
<input type="radio"/> GIMP	<input type="radio"/> FreeBSD	<input type="radio"/> Python
<input type="radio"/> Chromium	<input type="radio"/> ReactOS	<input type="radio"/> Ruby
<input type="radio"/> Blender	<input type="radio"/> Haiku	<input type="radio"/> PHDL
<input type="radio"/> Mozilla Firefox	<input type="radio"/> FreeDOS	<input type="radio"/> Prolog
<input type="radio"/> Open Office		

C) Difference between Free and Open Source Software.:-

Open source software or free software Although there are different rules for free software licenses (four freedoms) and open source licenses (Open Source Definition), what is not apparent from those two sets of rules is:

- 1. Both terms refer to essentially the same set of licenses and software, and**
- 2. Each term implies different underlying values.**

Open Source Software :

Open Source Software is something which you can modify as per your needs, share With others without any licensing violation burden. When we say Open Source, source Code of software is available publicly with Open Source licenses like GNU (GPL) which Allows you to edit source code and distribute it. Read these licenses and you will realize That these licenses are created to help us.

Coined by the development environments around software produced by open Collaboration of software developers on the internet.Later specified by the Open Source Initiative (OSI).It does not explicitly state ethical values, besides those directly associated to

Software development.

Difference between Free Software and Open Source Software:

Free software = Free software usually refers open source under GNU GPL license. At Least the original term by Richard Stallman did. He meant free as in freedom . Because the Word free in English mean without cost the team open source was created. To hint toward The collaborative development effort ,not the price to acquire something.

Open source = your source code is accessible to anyone to read and modify and Redistribute depending on license condition.

Writing email

- 1. Set up an email address.** If you do not already have an email address, you will need to sign up with an email provider before proceeding. Thankfully, there are many free web-based email providers who you can get a free email address with for no cost. Some of the most popular ones include:
 - Gmail
 - Hotmail
 - Yahoo mail
- 2. Click on ‘Compose’ or ‘New’.** Before you can write an email, you will need to open a new, blank message box to write your email in. The exact method varies depending on the service you use, but there will usually be a button toward the top of the page with a label like “Compose,” “New,” or “New Message.”
- 3. List the recipients’ email addresses.** You do not need to list your own email address, but you do need to specify the email address of the person or people you intend to send the email to.
- 4. Include an informative subject.** Every email service will let you type a subject or title for your email in the “Subject” box.

- 5. Keep the subject line casual. A subject line is not strictly essential, but it is still a good idea to include a subject. Keep it short, sweet, and to the point.**
- 6. Write the body of your email. The body of your email should be written in the large text box below the subject line.**
- 7. Hit the “Send” button. After you finish typing your email, review it to verify that there are no spelling or grammar mistakes and that the message clearly addresses the matter you wanted to bring up.**

← Compose   

From marupunit3@gmail.com 

To  infoabc97@gmail.com 

Complaint regarding poor internet service

 Compose



From marupunit3@gmail.com 

To  infoabc97@gmail.com 

Complaint regarding poor internet service

Dear sir

I have been a loyal customer of your company for broadband service.

During last few days, I have been facing bad network issues in the broadband connection. The internet speed is mostly much slower than the speed as per my monthly subscribe plan.

I hope you will look into the my internet problem more seriously and try to fix the problem permanently as soon as possible.

Using practical examples, describe green computing. List and explain the steps that you can take to contribute to green computing.

Ans:- Green computing is the study and practice of minimizing the environmental impact of computer system and related resources effectively and eco-friendly. It is an emerging concept towards reducing the hazardous material and save our environment from the harmful impacts of the computer, CPU, servers and other electronic devices.

Green computing is an application of environmental science which offers economically possible solutions that conserve natural environment and its resources. Green computing is designing, manufacturing, using and disposing of computers and its resources efficiently with minimal or no impact on environment. The goals of Green computing is to manage the power and energy efficiency, choice of eco friendly hardware and software, and recycling the material to increase the product's life. Go for Green computer reduced your electricity bill and give a full rest to your mind. Now in these days, we use the star management strategies and technologies that reduce energy consumption waste.

Green computing makes sure that very less amount of energy is consumed by the IT processes. Thus, this can save plenty amount of energy overtime.

1. Cost Savings Green computing is highly cost effective that helps people save money. Since lots of energies are saved when using a green computing solution, it also substantially leads to financial gains. Even though green computing is with high upfront costs, still it is cost effective in the long run.
2. Recycling Process Green computing encourages recycling process by reusing and recycling electronic wastes. Most parts of the computer are constructed using eco-friendly materials instead of plastic so that it can have less environmental impacts. This makes all the electronic wastes to get separated efficiently. Hence by implementing green computing strategies, companies overall can improve their recycling process.
3. Brand Strengthen Some customers are so well concerned about the environment that they are solely preferring to go with companies that support green computing. Green computing is capable of creating public images so that they can strengthen their brand and market position all around the world.
4. Less Pollution Through conventional computing, lots of pollution issues take place in the environment. For an example, if not properly recycled all the electronic wastes from the computer may end up circulating on land. Thus, leading to soil as well as water pollution. By using green computing, the users can minimize the impact created by pollution at least to some extent.
5. GHG Emission During the production of IT hardware, tremendous amount of green house gases are released to the atmosphere. Especially, since harmful gases such as carbon dioxide are emitted, it could lead to global warming. Hence, for lowering the amount of green house gases emitted, the production of hardware components must be reduced as well. This is how green computing works effectively.
6. Chemical Exposure In most of the electronic devices, harmful chemicals such as mercury is used. If a human happens to get contacted with those substances, he/she will probably suffer from health risks. Some of the known health risks are triggering of immune responses, nerve damage or even cancer. The companies which practice green computing potentially avoid the use of non-toxic substances during the production of computer hardware.

Blog Presentation

Topic :- Explore with Punit

Places to visit in Mumbai with Family.

Sunday, 21 March 2021

Places to visit in Mumbai with Family

Here I will show 5 Best places to visit in Mumbai to make the Most of your Trip

1. Gateway of India, Mumbai

The screenshot shows a blog post titled "Explore with Punit" with a dark blue header. The main content area features a white box containing the post's text and a thumbnail image of the Gateway of India. To the right, there is a sidebar with a search bar, links to "Home" and "About Me" (Punit maru), and a "Labels" section for "Food & Travelling" and "Travelling". Below that is a "Blog archive" section for March 2021.

2. Sanjay Gandhi National Park, Mumbai

Sprawling over an area of 104 sq. km. of land, this is one of the most-visited national parks in Asia and because of this, I give it the 2nd spot among all the best places to visit in Mumbai. With all sorts of fun activities, this park can surely be a family entertainer. You can watch the big cats of the park close enough in a safari cage and have a fun day boating in the artificial lake in the park. Take the forest road or stairs and hike towards the Gandhi Tekdi, a memorial built in the memory of Mahatma Gandhi. The toy train, Van Rani, is another popular attraction here, especially among kids. You can also visit the 2000-years-old Kanheri Caves to capture the Buddha relics.

📍 Location: Borivali East, Mumbai

🕒 Timing: 07:30 am to 06:30 pm; (closed on Monday)

💰 Entry Fee: Adults - 53 Rupees per person
Children (Between 5 to 12 years of age) - 28 Rupees per person
(Below 5 years) - Free

The screenshot shows the continuation of the blog post, featuring a new section about Sanjay Gandhi National Park. It includes a thumbnail image of a yellow toy train, a detailed description of the park's attractions, and specific information about its location, timing, and entry fees.

Practical 6

Punit Maru 39 FYIT

The screenshot shows a Microsoft Edge browser window with the title "Explore with Punit: Places to visit". The main content is a blog post from "explorewithpunit.blogspot.com" dated April 5, 2021, at 9:57 PM. The post is titled "3. Siddhivinayak Temple, Mumbai". It features a photograph of the temple's gilded roof and a wall of small shrines. Below the photo is a descriptive paragraph and three bullet points: Location: Khed Galli, Prabhadevi, Mumbai; Timing: 05:30 am to 10:00 pm; everyday; Entry Fee: N/A. The browser's taskbar at the bottom shows various open tabs and pinned apps like GitHub, Blogger, and Netflix.

The screenshot shows a Microsoft Edge browser window with the title "Explore with Punit: Places to visit". The main content is a blog post from "explorewithpunit.blogspot.com" dated April 5, 2021, at 9:58 PM. The post is titled "5. Marine Drive, Mumbai". It features a photograph of the illuminated Marine Drive at night. Below the photo is a descriptive paragraph and three bullet points: Location: Netaji Subhash Chandra Bose Road, Chowpatty, Mumbai; Timings: 24 x 7; every day; Entry Fee: NA. The browser's taskbar at the bottom shows various open tabs and pinned apps like GitHub, Blogger, and Netflix.

This are the places that you can visit with family. I have visited these places & now I'll be Sharing my experience.

Implementing the coding practice in python using PEP8.**Ans :-**

It gets difficult to understand a messed up handwriting, similarly an unreadable and unstructured code is not accepted by all. However, you can benefit as a programmer only when you can express better with your code. This is where PEP comes to the rescue.

Python Enhancement Proposal or PEP is a design document which provides information to the Python community and also describes new features and document aspects, such as style and design for Python. Python is a multi-paradigm programming language which is easy to learn and has gained popularity in the fields of Data Science and Web Development over a few years and PEP 8 is called the style code of Python. It was written by Guido van Rossum, Barry Warsaw, and Nick Coghlan in the year 2001. It focuses on enhancing Python's code readability and consistency. Join the certification course on Python Programming and gain skills and knowledge about various features of Python along with tips and tricks.

The Zen of Python

It is a collection of 19 ‘guiding principles’ which was originally written by Tim Peters in the year 1999. It guides the design of the Python Programming Language. Python was developed with some goals in mind. You can see those when you type the

following code and run it:

```
>>> import this
```

The Zen of Python, by Tim Peters

Beautiful is better than ugly.

Explicit is better than implicit.

Simple is better than complex.

Complex is better than complicated.

Flat is better than nested.

Sparse is better than dense.

Readability counts.

Special cases aren't special enough to break the rules.

Although practicality beats purity.

Errors should never pass silently.

Unless explicitly silenced.

In the face of ambiguity, refuse the temptation to guess.

There should be one-- and preferably only one --obvious way to do it.

Although that way may not be obvious at first unless you're Dutch.

Now is better than never.

Although never is often better than *right* now.

If the implementation is hard to explain, it's a bad idea.

If the implementation is easy to explain, it may be a good idea.

Namespaces are one honking great idea -- let's do more of those!

The Need for PEP 8

Readability is the key to good code. Writing good code is like an art form which acts as a subjective topic for different developers.

Readability is important in the sense that once you write a code, you need to remember what the code does and why you have written it. You might never write that code again, but you'll have to read that piece of code again and again while working in a project.

PEP 8 adds a logical meaning to your code by making sure your variables are named well, sufficient whitespaces are there or not and also by commenting well. If you're a beginner to the language, PEP 8 would make your coding experience more pleasant.

Following PEP 8 would also make your task easier if you're working as a professional developer. People who are unknown to you and have never seen how you style your code will be able to easily read and understand your code only if you follow and recognize a particular guideline where readability is your de facto.

And as Guido van Rossum said— “Code is read much more than it is often written”.

The Code Layout

Your code layout has a huge impact on the readability of your code.

Indentation

The indentation level of line is computed by the leading spaces and tabs at the beginning of a line of logic. It influences the grouping of statements.

The rules of PEP 8 says to use 4 spaces per indentation level and also spaces should be preferred over tabs.

An example of code to show indentation:

```
x = 5
```

```
if x < 10:
```

```
    print('x is less than 10')
```

Tabs or Spaces?

Here the print statement is indented which informs Python to execute the statement only if the if statement is true. Indentation also helps Python to know what code it will execute during function calls and also when using classes. PEP 8 recommends using 4 spaces to show indentation and tabs should only be used to maintain consistency in the code.

Python 3 forbids the mixing of spaces and tabs for indentation. You can either use tabs or spaces and you should maintain consistency while using Python 3. The errors are automatically displayed:

```
python hello.py
```

```
File "hello.py", line 3
```

```
print(i, j)
```

```
^
```

TabError: inconsistent use of tabs and spaces in indentation

However, if you're working in Python 2, you can check the consistency by using a -t flag in your code which will display the warnings of inconsistencies with the use of spaces and tabs.

You can also use the -tt flag which will show the errors instead of warnings and also the location of inconsistencies in your code.

Maximum Line Length and Line Breaking

The Python Library is conservative and 79 characters are the maximum required line limit as suggested by PEP 8. This helps to avoid line wrapping. Since maintaining the limit to 79 characters isn't always possible, so PEP 8 allows wrapping lines using Python's implied line continuation with parentheses, brackets, and braces:

```
def function(argument_1, argument_2,  
           argument_3, argument_4):  
    return argument_1
```

Or by using backslashes to break lines:

```
with open('/path/to/some/file/you/want/to/read') as example_1, \  
      open('/path/to/some/file/being/written', 'w') as example_2:  
    file_2.write(file_1.read())
```

When it comes to binary operators, PEP 8 encourages to break lines before the binary operators. This accounts for more readable code.

Let us understand this by comparing two examples:

```
# Example 1  
# Do  
total = ( variable_1 + variable_2 - variable_3 )  
  
# Example 2  
# Don't  
total = ( variable_1 + variable_2 - variable_3 )
```

In the first example, it is easily understood which variable is added or subtracted, since the operator is just next to the variable to which it is operated. However, in the second example, it is a little difficult to understand which variable is added or subtracted.

Indentation with Line Breaks

Indentation allows a user to differentiate between multiple lines of code and a single line of code that spans multiple lines. It enhances readability too.

The first style of indentation is to adjust the indented block with the delimiter:

```
def function(argument_one, argument_two,  
           argument_three, argument_four):  
    return argument_one
```

You can also improve readability by adding comments:

```
x = 10  
if (x > 5 and  
    x < 20):  
    # If Both conditions are satisfied  
    print(x)
```

Or by adding extra indentation:

```
x = 10  
if (x > 5 and  
    x < 20):  
    print(x)
```

Another type of indentation is the hanging indentation by which you can symbolize a continuation of a line of code visually:

```
foo = long_function_name(  
    variable_one, variable_two,  
    variable_three, variable_four)
```

You can choose any of the methods of indentation, following line breaks, in situations where the 79 character line limit forces you to add line breaks in your code, which will ultimately improve the readability.

Blank lines

Blank lines are also called vertical whitespaces. It is a logical line consisting of spaces, tabs, formfeeds or comments that are basically ignored.

Using blank lines in top-level-functions and classes:

```
class my_first_class:  
    pass  
  
class my_second_class:  
    pass  
  
def top_level_function():  
    return None
```

Adding two blank lines between the top-level-functions and classes will have a clear separation and will add more sensibility to the code.

Using blank lines in defining methods inside classes:

```
class my_class:  
    def method_1(self):  
        return None  
  
    def method_2(self):  
        return None
```

Here, a single vertical space is enough for a readable code. You can also use blank spaces inside multi-step functions. It helps the reader to gather the logic of your function and understand it efficiently. A single blank line will work in such case.

An example to illustrate such:

```
def calculate_average(number_list):  
    sum_list = 0
```

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```
for number in number_list:  
    sum_list = sum_list + number  
  
average = 0  
  
    average = sum_list / len(number_list)  
  
return average
```

Above is a function to calculate the average. There is a blank line between each step and also before the return statement. The use of blank lines can greatly improve the readability of your code and it also allows the reader to understand the separation of the sections of code and the relation between them.

LEED

Leadership in Energy and Environmental Design

Group no:-12

- Abdullah Sunasara 108
- Raghavendra Rao 69
- Dwiti Joshi 31
- Prit modi 47
- Aditya sahu 70
- Abhishek pal 55
- Saqeeb Ballari 113
- Punit maru 39
- Jay dave 129
- Vidhi Patel 61

What is Leed?

- LEED (Leadership in Energy and Environmental Design) is the most widely used green building rating system in the world. Available for virtually all building types, LEED provides a framework for healthy, highly efficient, and cost-saving green buildings. LEED certification is a globally recognized symbol of sustainability achievement and leadership.
- A way to define and measure “green buildings”:
- Categorized into building/project types
- New Construction.
- Existing Buildings.
- Commercial Interiors.
- Core and Shell.
- LEED for Homes.
- Neighborhood Development

LEED Rating System

- Seven Categories with slightly different requirements.
- Point allocation based on project type/ rating system:
- Sustainable Sites.
- Indoor Environmental Quality.
- Energy and Atmosphere.
- Materials and Resources.
- Innovation and Design.
- Water Efficiency.

Sustainable Sites

- The **Sustainable Sites** (SS) category is about making decisions based on having less impact to the environment

Sustainable Site Planning Topics to Cover

- Site Selection
- Site/Building Layout
- Impervious Surfaces
- Grading Considerations
- Stormwater Management
- Landscape Design

Points to be Avoided :-

- Prime farmland
- Previously undeveloped land with an elevation lower than 5 feet above the elevation of the 100-year flood as defined by the Emergency Management Agency;
- Land identified as habitat for any species or state threatened or endangered list
- land within 100 feet of any wetlands
- Previously undeveloped land within 50 feet of a body of water which supports or could support fishing, recreation
- Land which was public parkland.

Indoor Environmental Quality (IEQ)

- Indoor environmental quality (**IEQ**) refers to the quality of a building's environment in relation to the health and wellbeing of those who occupy space within it. **IEQ** is determined by many factors, including lighting, air quality, and damp conditions.
- IEQ is determined by many factors, including lighting, air quality, and other condition

Critical Components

- Indoor air quality — odors, indoor air pollution, fresh air supply,...
- Thermal comfort or indoor climate —Temperature, moisture, air velocity
- Visual or lighting quality —View, illuminance, luminance ratios, reflection,...
- Acoustical quality —Outside and indoor noise and vibrations

Energy and Atmosphere

- Improving energy efficiency is one of the easiest ways to save money and improve the sustainability of a building. Therefore almost a third of the points available in LEED are found in this category. Projects can earn these points by making the building more efficient than a code baseline building of similar size and shape, commissioning the building systems, and adding renewable power sources to the project.

Materials & Resources

- Did You Know? The most sustainable thing we can do is not build since a typical 1,700 square foot wood framed home requires the equivalent of clear cutting one acre of forest
"Reuse of existing buildings is one of the most effective strategies for minimizing environmental impacts" since it adds less garbage to landfills. Construction and demolition waste streams constitute 40% of total waste in U.S. Use of local reused material reduces transportation waste

Materials & Resources

- A LEED Materials and Resources Points earned for:
 1. Storage & Collection of Recyclables.
 2. Construction Waste Management, Divert 50% from Disposal.
 3. Choosing Materials with a minimum 10% Recycled Content.
 4. Choosing FSC Certified Wood.

Innovation and design

- Instead of creating a new product and then "selling" it the public, innovative design is a process of identifying, pinpointing, and understanding the needs of the user or audience.
- Design Innovation, as you can infer, is a process used to create innovation. It focuses on addressing people's needs with what is technologically feasible and devising a viable business strategy to derive value from this market opportunity.

Water Efficiency

Did You Know?

Everyday 4 of nations total supply of water is used with 65% discharged treated or untreated in rivers, streams and lakes.

" U.S. extracts 3,700 billion gallons from the aquifer more than they return.

a LEED Water Efficiency Points earned for:

- Water efficient Landscaping
- Minimizing or utilizing Wastewater
- Other water efficient features
- Low-flow shower heads

Water Efficiency

WE Credit 3.1: Water Use Reduction: 20% Reduction

Maximize water efficiency within buildings to reduce the burden on municipal water supply and wastewater systems.

Requirements

Employ strategies that in aggregate use 20% less water than the water use baseline calculated for the building (not including irrigation) after meeting the Energy Policy Act of 1992 fixture performance requirements. Calculations are based on estimated occupant usage and shall include only the following fixtures (as applicable to the building): water closets, urinals, lavatory faucets, showers and kitchen sinks.

LEED Basics

- Must commit to sharing whole-building energy and water usage data
 - for a period of at least 5 years
 - in a free, accessible, and secure online tool or, if necessary, taking any action to authorize the collection of information directly from service or utility must carry forward if the building or space changes ownership or lesser providers

LEED Basics

2009 Minimum Program Requirements

1. Must comply with environmental laws
2. Must be a complete, permanent building or space
3. Must use a reasonable site boundary
4. Must comply with minimum floor area requirements
5. Must comply with minimum occupancy rates
6. Must commit to sharing whole-building energy and water usage data
7. Must comply with a minimum building area to site area ratio

What is a “Green Building”

- A 'green' building is a building that, in its design, construction or operation, reduces or eliminates negative impacts, and can create positive impacts, on our climate and natural environment. Green buildings preserve precious natural resources and improve our quality of life.

Why go “Green”?

- Improves Your Health.
- Improves Air Quality.
- Slow down Climate Change.
- Reduces Carbon Emissions by Green Travel.

Why go “Green”?

- Reduces Carbon Footprint.
- Prevent Water Pollution.
- Increases Productivity.
- Sets an Example For Others.

GREEN GLOBES

- The Green Globe certification is a structured assessment of the sustainability performance of travel and tourism businesses and their supply chain partners. Businesses can monitor improvements and document achievements leading to certification of their enterprises' sustainable operation and management.

GREEN GLOBES

- Two Categories:
 - New Construction.
 - Continual Improvement of Existing Buildings.

GREEN GLOBES

- New Construction – 2 Stages
 - Stage I -- review of construction documents, working drawings, landscape designs, energy analysis, LCA documentation, commissioning reports, etc.
 - Stage II -- onsite walk through, review of additional documentation, and interview of key team members.

GREEN GLOBES

- Continual Improvement of Existing Buildings:
 - extensive documentation review and an on-site visit with a walk through and interview of facility manager and chief engineer.

Why Green in Interior Design?

- In all categories there are Prerequisites that must be met.
- LEED Leadership in energy and environmental design .
- Buildings consume 37% of total energy and 68% of the electricity consumed in the U.S..
- Each day 5 billion gallons of potable water is used to flush toilets
- Typical construction project generates 2.5 pounds of waste per square foot of floor space.
- Quality of Life improvements for building inhabitant so
- Client requests

Typical Client Motivation

- Attitudes: Care about the environment.
- Goals:- Reduce operating costs· Save on Energy, water, wasteEnhance Building Marketability
- Other Goals:- Increase worker productivity (Production gains up to 16%)Reduce absenteeism because of "Sick building syndrome"•
- Reduce liability / Increase loyalty LEED Leadership in energy and environmental

“Defining Success Together”

- Because of various standards and outcomes, it is important to work with client to understand just what client wants to achieve in undertaking a “green building” project.
- Green Building legal issues revolve around:
 - Identifying parties’ “values” and negotiating agreements that result in “wins”.
 - Allocating risks, benefits, burdens and responsibilities.
 - Anticipating and avoiding unnecessary trouble.

Is Green – Real or Just Marketing

- Because of various standards and outcomes, it is important to work with client to understand just what client wants to achieve in undertaking a “green building” project.

Is Green – Real or Just Marketing

- LEED not necessarily valued in marketplace
 - 2009 RICS Study: LEED rating did not statistically improve rents while Energy Star rating associated with rents higher by 3.3%