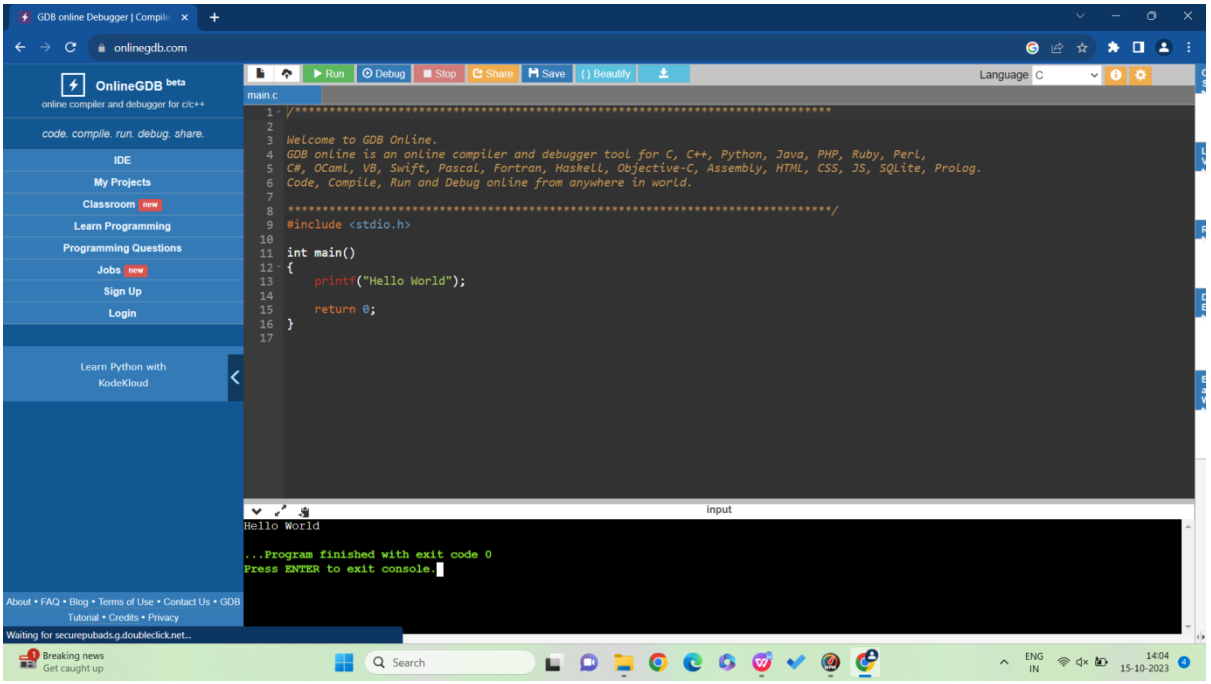
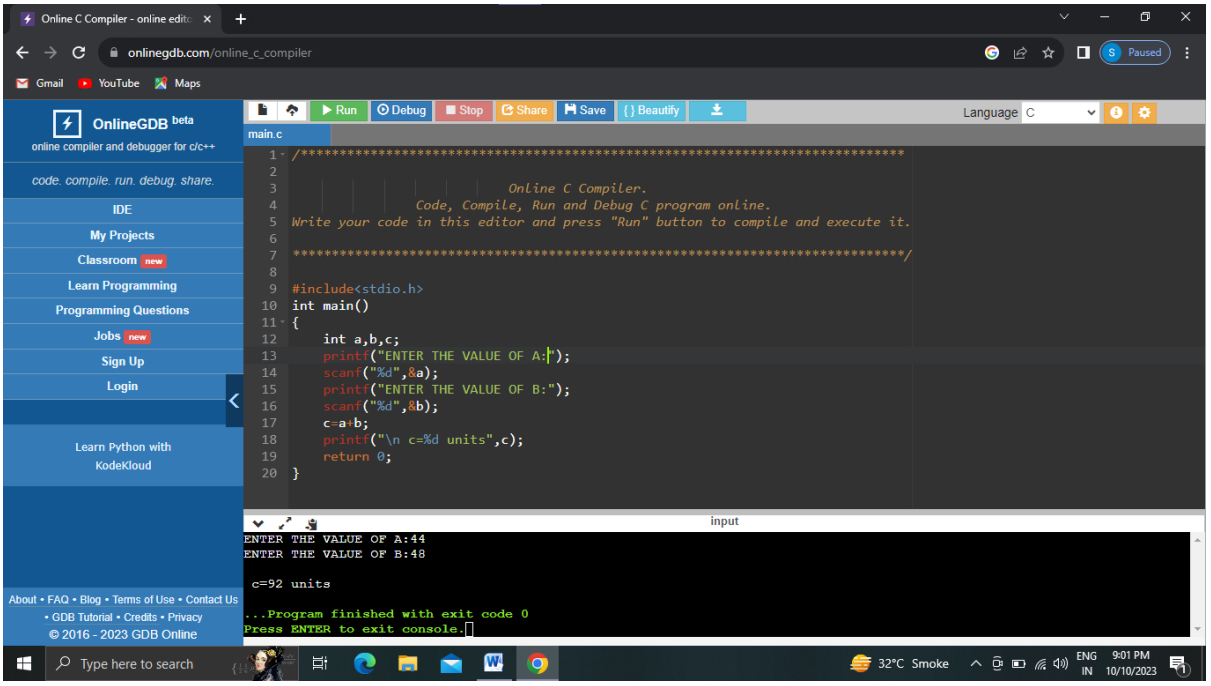
PRACTICAL 1

AIM: Execute C Program using gcc compiler

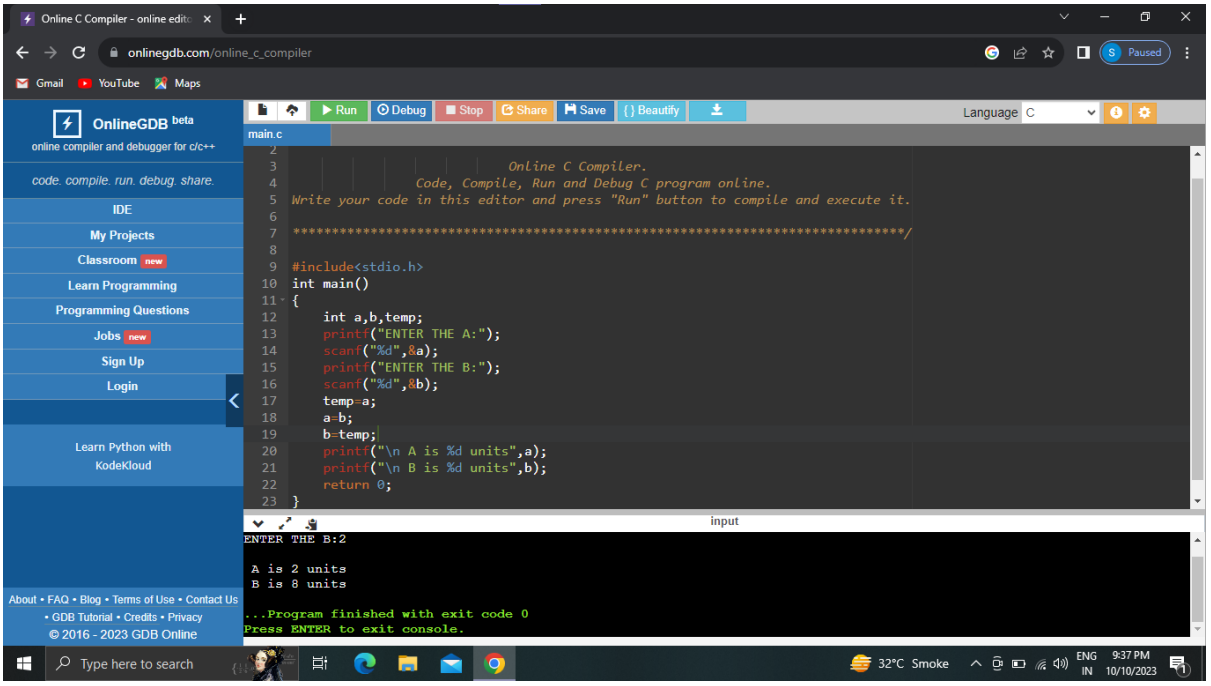
PROGRAM 1: PRINT THE HELLO WORLD USING C PROGRAM:



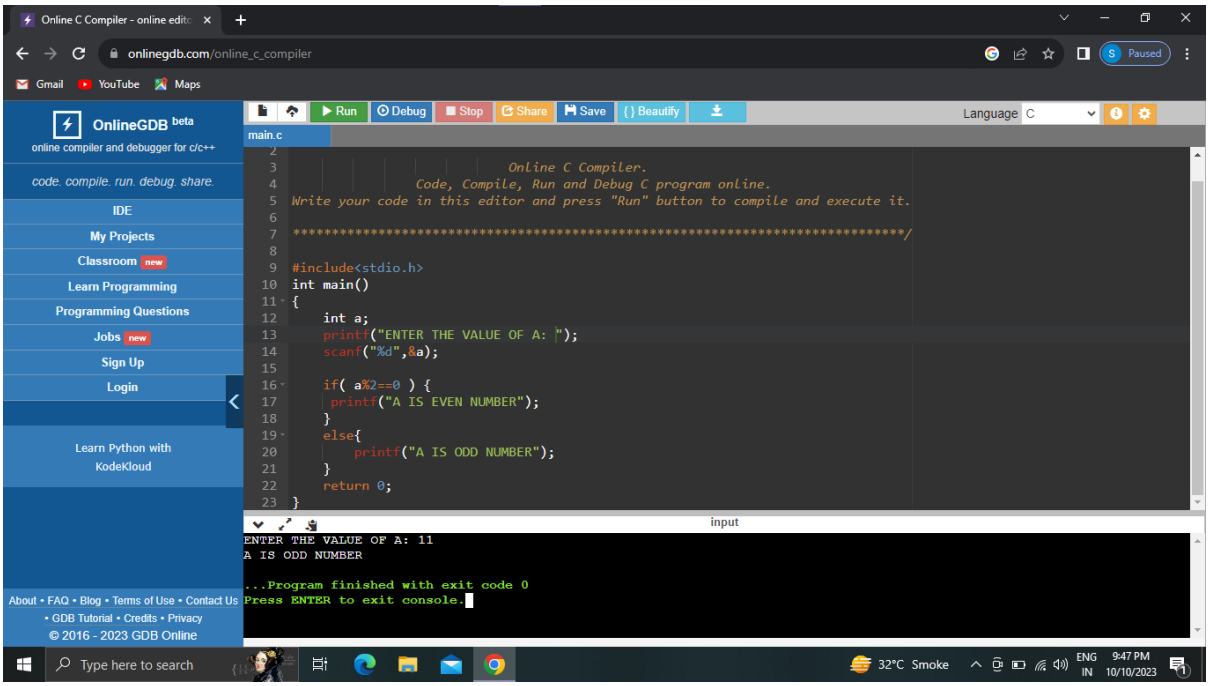
PROGRAM 2: WRITE A C PROGRAM T0 ADD TWO NUMBERS :



PROGRAM 3: WRITE A C PROGRAM T0 SWAP TWO NUMBERS:

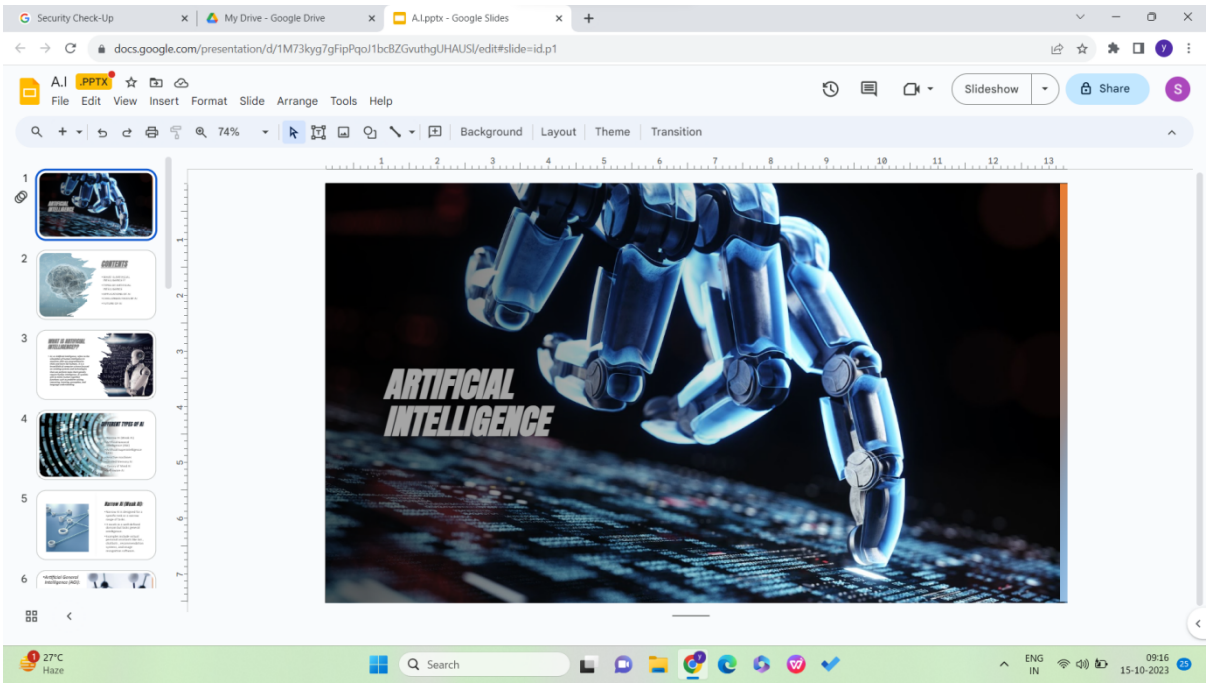


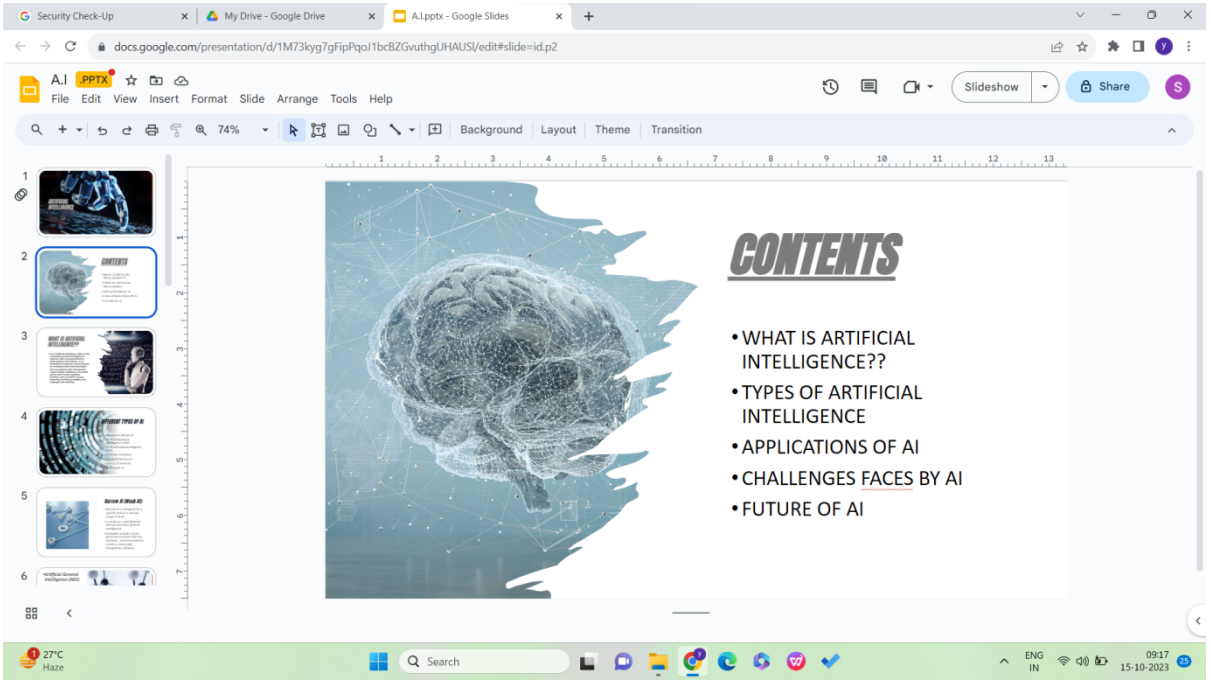
PROGRAM 4: WRITE A C PROGRAM T0 FIND THE ODD OR EVEN NUMBER:

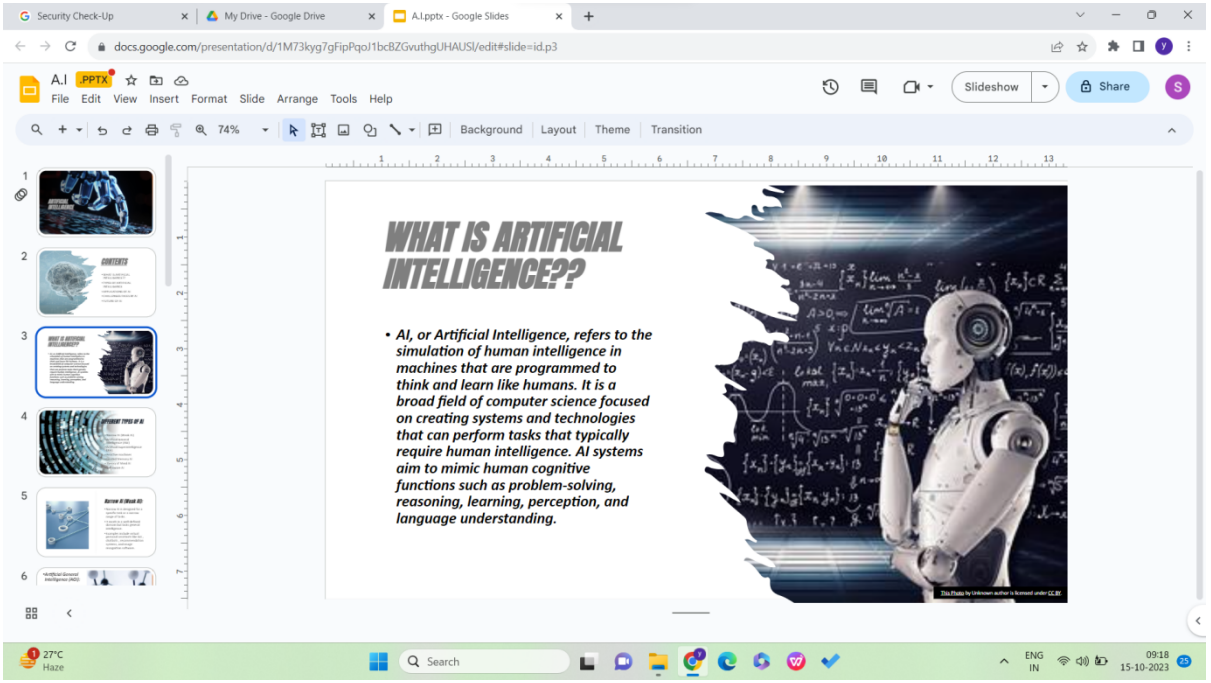


PRACTICAL 2

AIM: Create Presentation using Google Slides.



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WHAT IS ARTIFICIAL INTELLIGENCE??
• AI, or Artificial Intelligence, refers to the simulation of human intelligence in machines that are programmed to think and learn like humans. It is a broad field of computer science focused on creating systems and technologies that can perform tasks that typically require human intelligence. AI systems aim to mimic human cognitive functions such as problem-solving, reasoning, learning, perception, and language understanding.
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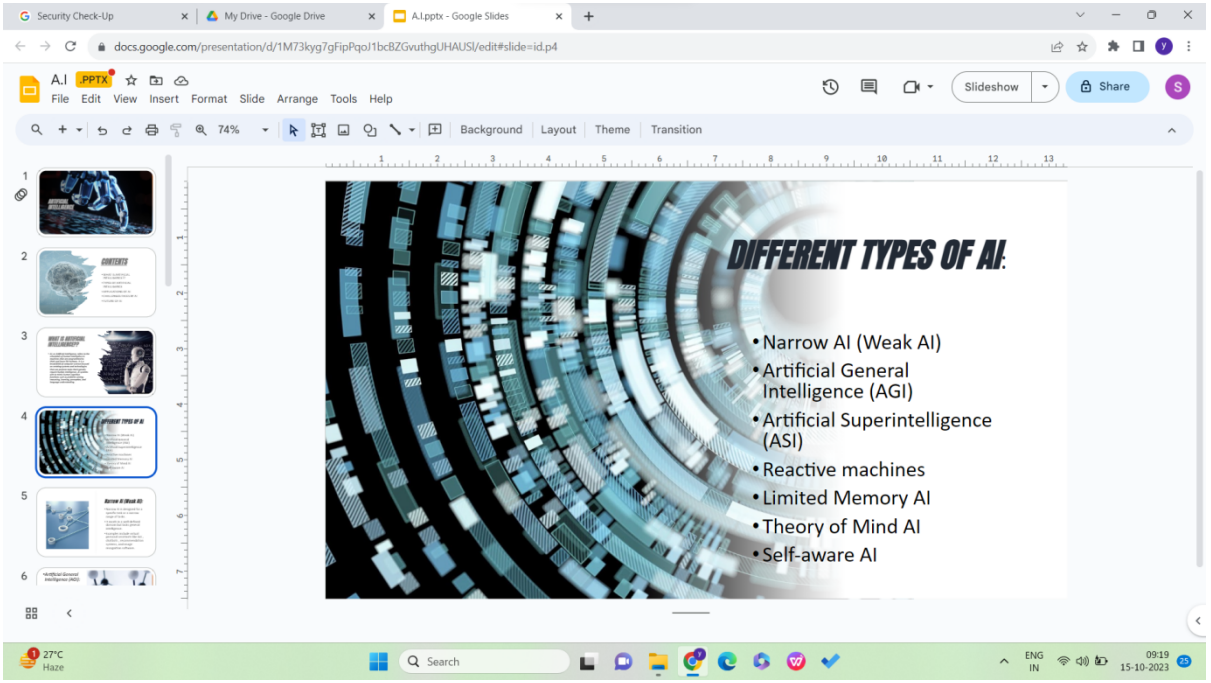
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DIFFERENT TYPES OF AI:
• Narrow AI (Weak AI)
• Artificial General Intelligence (AGI)
• Artificial Superintelligence (ASI)
• Reactive machines
• Limited Memory AI
• Theory of Mind AI
• Self-aware AI
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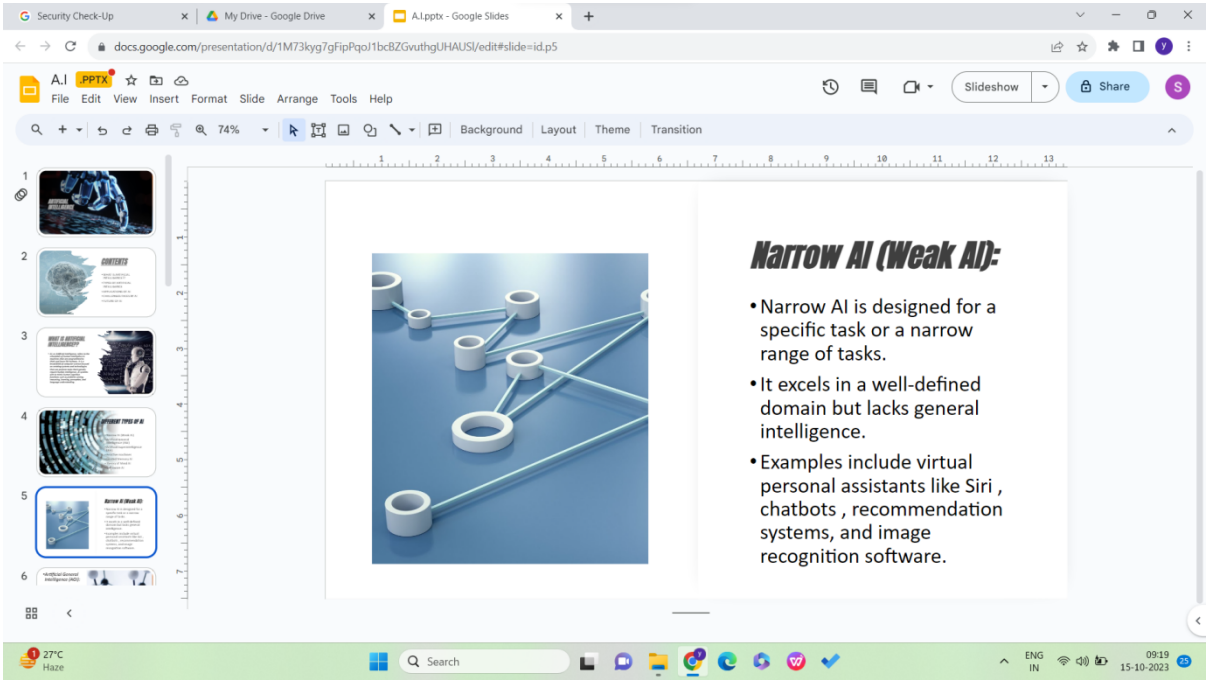
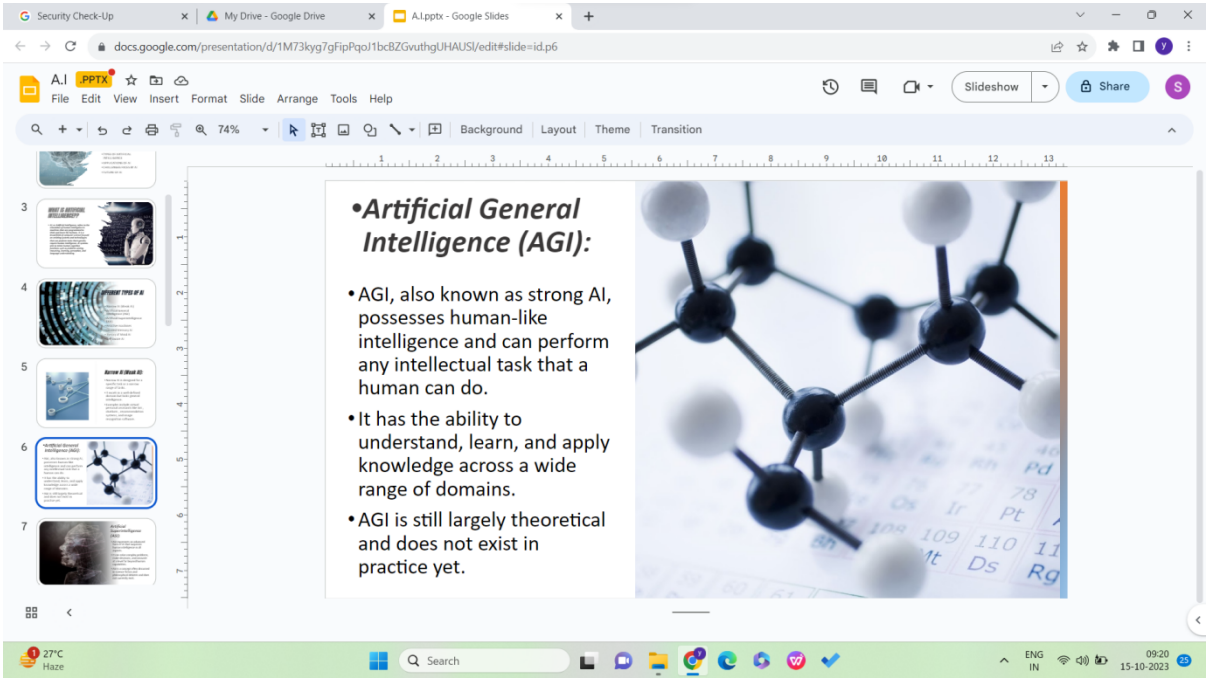
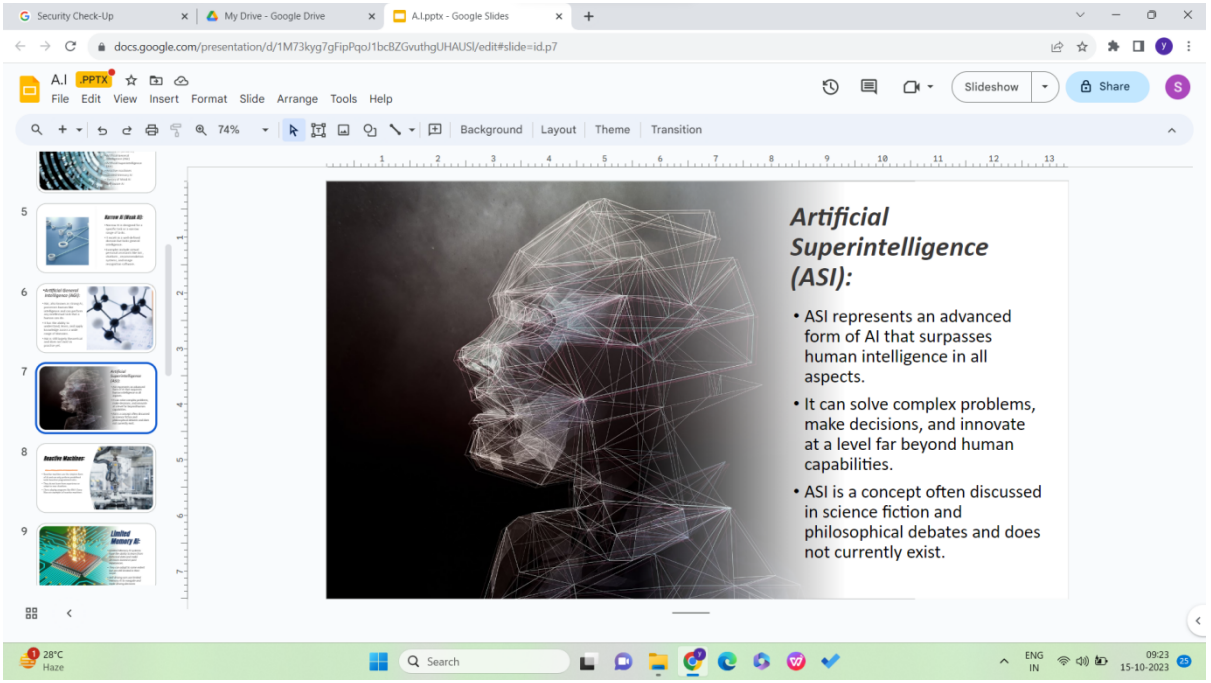

Narrow AI (Weak AI):
• Narrow AI is designed for a specific task or a narrow range of tasks.
• It excels in a well-defined domain but lacks general intelligence.
• Examples include virtual personal assistants like Siri , chatbots , recommendation systems, and image recognition software.


•Artificial General Intelligence (AGI):
• AGI, also known as strong AI, possesses human-like intelligence and can perform any intellectual task that a human can do.
• It has the ability to understand, learn, and apply knowledge across a wide range of domains.
• AGI is still largely theoretical and does not exist in practice yet.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Artificial Superintelligence (ASI):
• ASI represents an advanced form of AI that surpasses human intelligence in all aspects.
• It can solve complex problems, make decisions, and innovate at a level far beyond human capabilities.
• ASI is a concept often discussed in science fiction and philosophical debates and does not currently exist.
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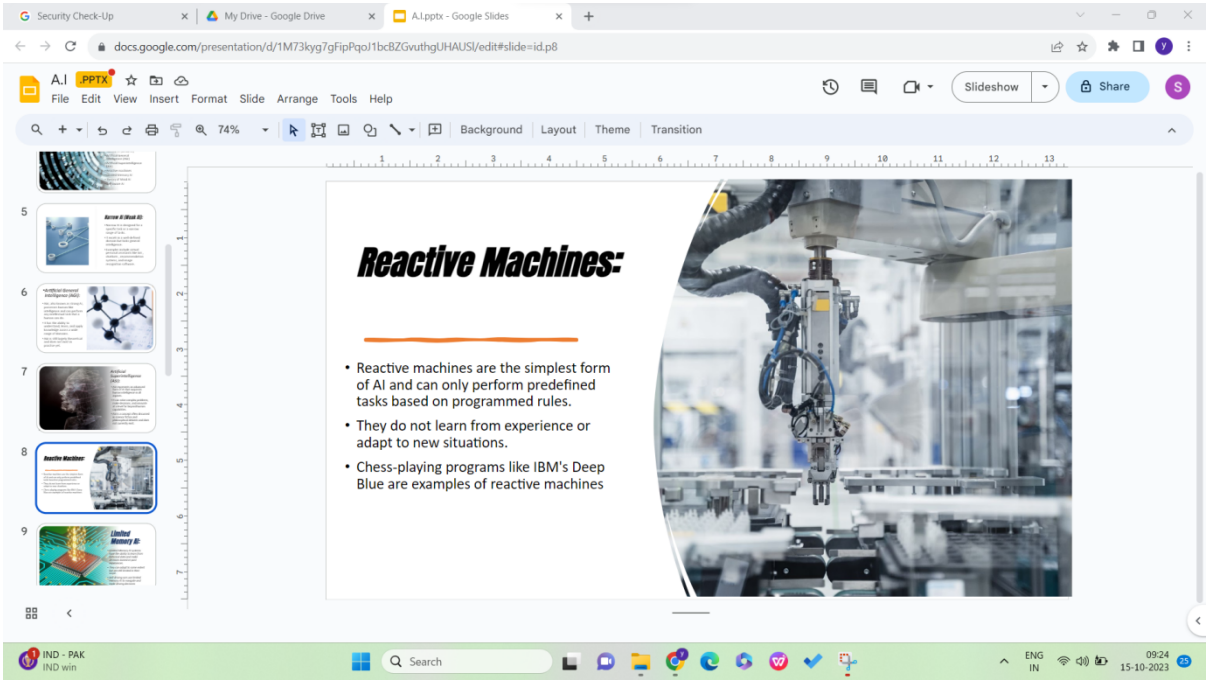
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Reactive Machines:
• Reactive machines are the simplest form of AI and can only perform predefined tasks based on programmed rules.
• They do not learn from experience or adapt to new situations.
• Chess-playing programs like IBM's Deep Blue are examples of reactive machines
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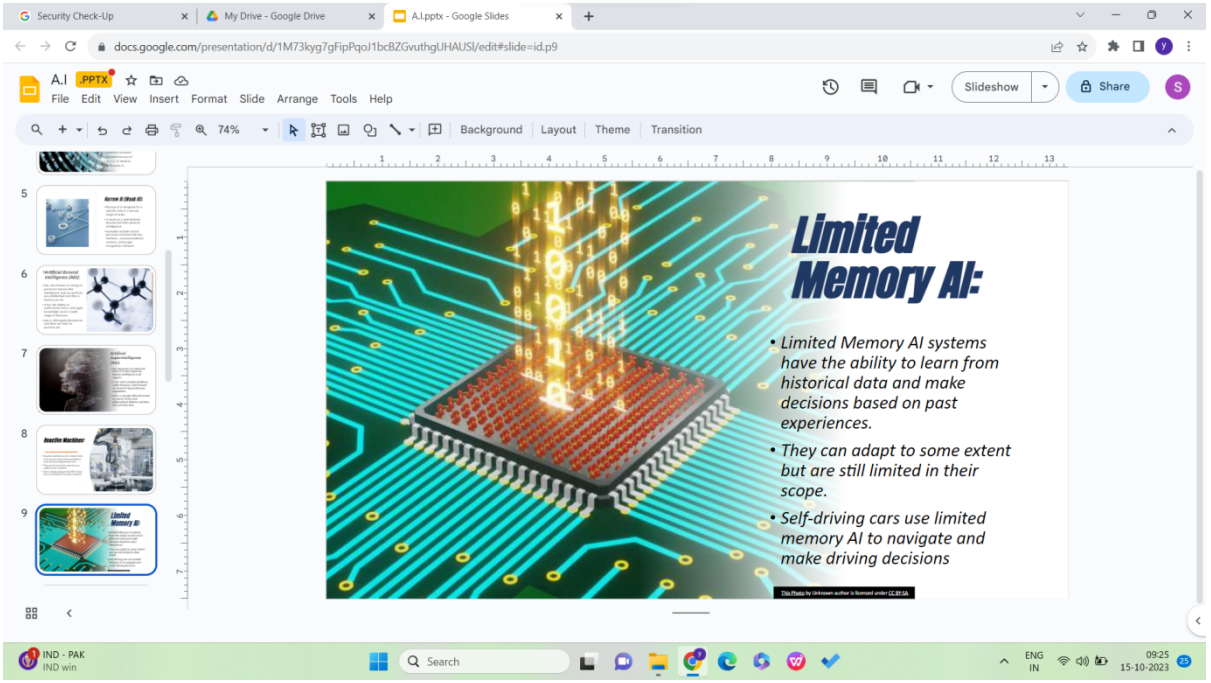
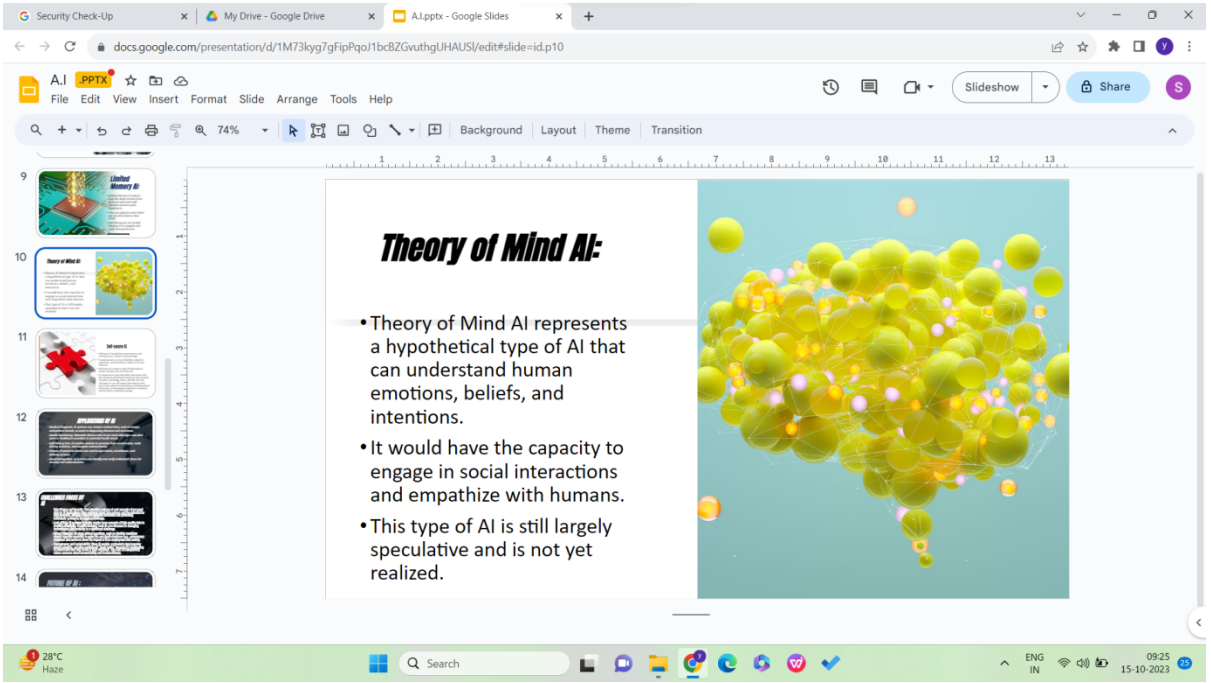
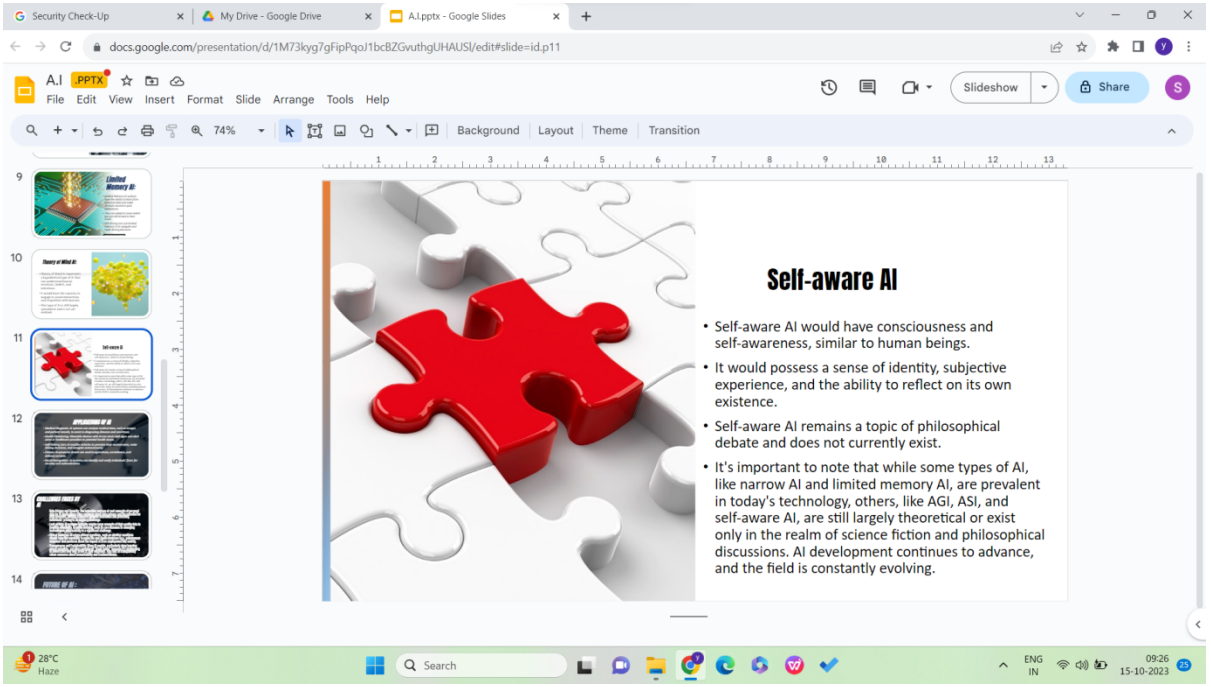

Limited Memory AI:
• Limited Memory AI systems have the ability to learn from historical data and make decisions based on past experiences.
• They can adapt to some extent but are still limited in their scope.
• Self-driving cars use limited memory AI to navigate and make driving decisions


Theory of Mind AI:
• Theory of Mind AI represents a hypothetical type of AI that can understand human emotions, beliefs, and intentions.
• It would have the capacity to engage in social interactions and empathize with humans.
• This type of AI is still largely speculative and is not yet realized.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Self-aware AI
• Self-aware AI would have consciousness and self-awareness, similar to human beings.
• It would possess a sense of identity, subjective experience, and the ability to reflect on its own existence.
• Self-aware AI remains a topic of philosophical debate and does not currently exist.
• It's important to note that while some types of AI, like narrow AI and limited memory AI, are prevalent in today's technology, others, like AGI, ASI, and self-aware AI, are still largely theoretical or exist only in the realm of science fiction and philosophical discussions. AI development continues to advance, and the field is constantly evolving.
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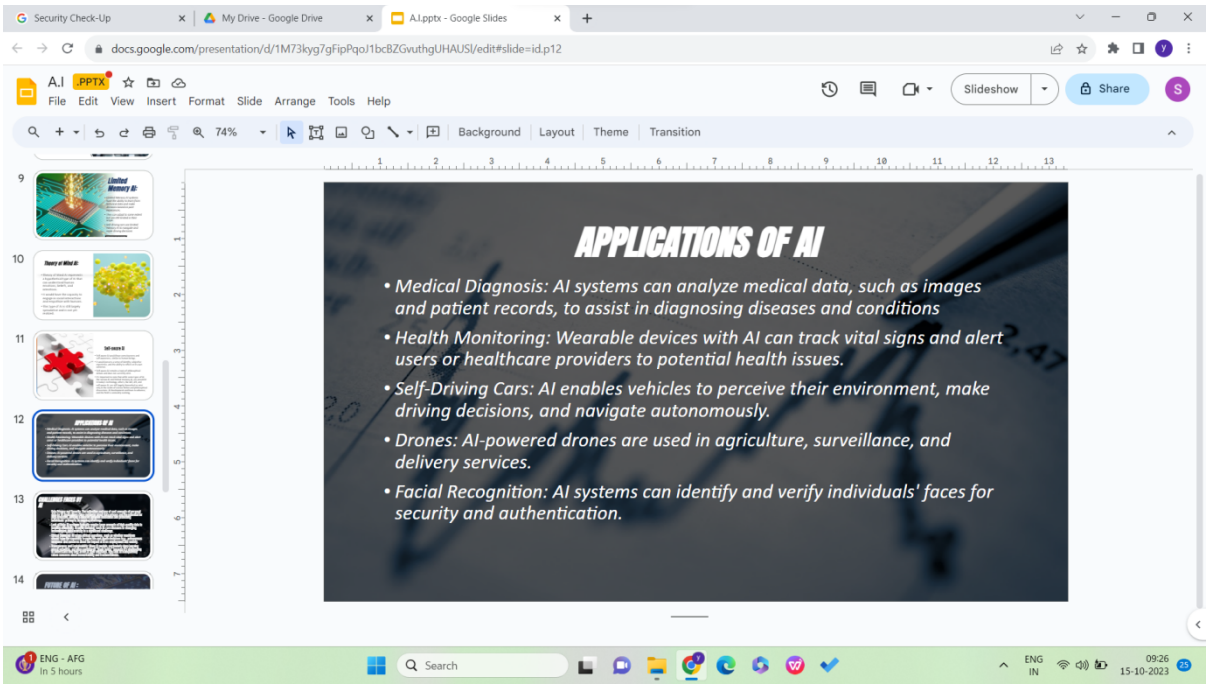
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APPLICATIONS OF AI
• Medical Diagnosis: AI systems can analyze medical data, such as images and patient records, to assist in diagnosing diseases and conditions
• Health Monitoring: Wearable devices with AI can track vital signs and alert users or healthcare providers to potential health issues.
• Self-Driving Cars: AI enables vehicles to perceive their environment, make driving decisions, and navigate autonomously.
• Drones: AI-powered drones are used in agriculture, surveillance, and delivery services.
• Facial Recognition: AI systems can identify and verify individuals' faces for security and authentication.
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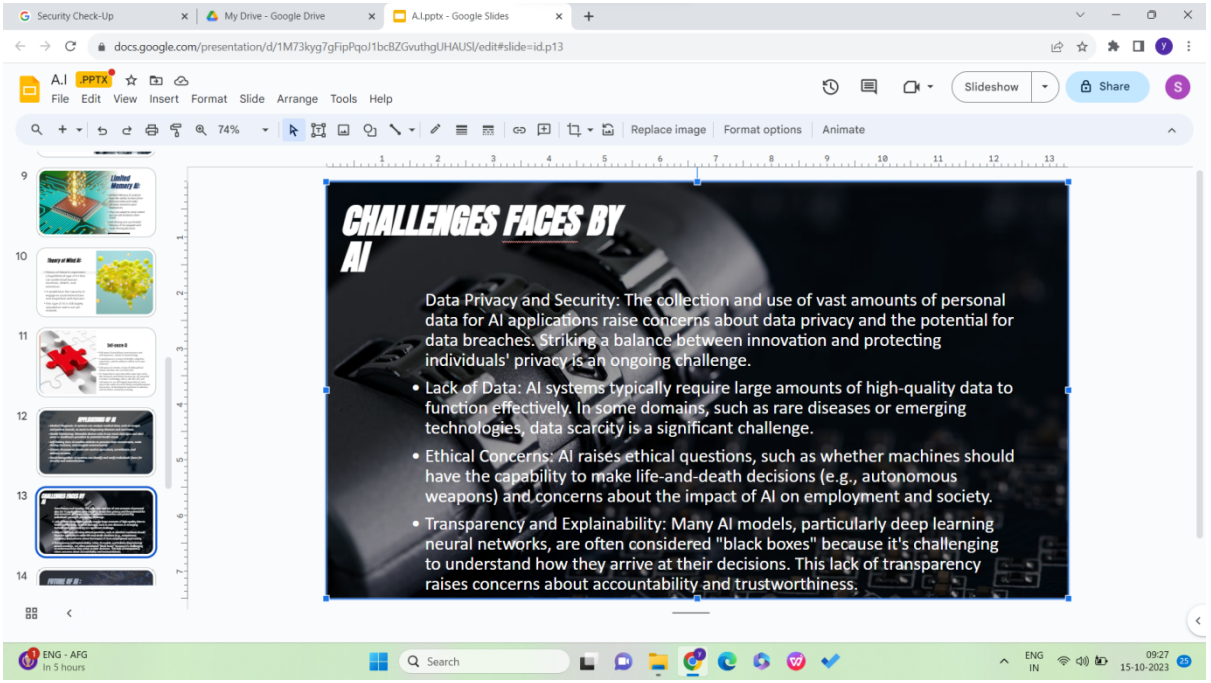
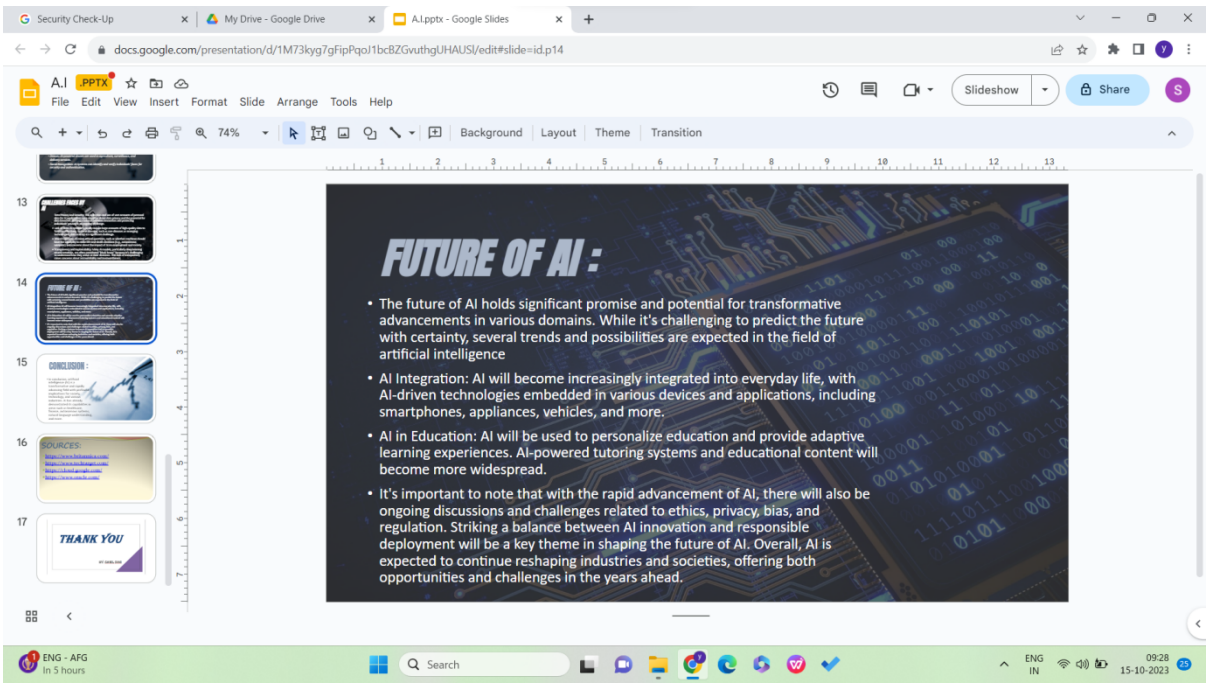
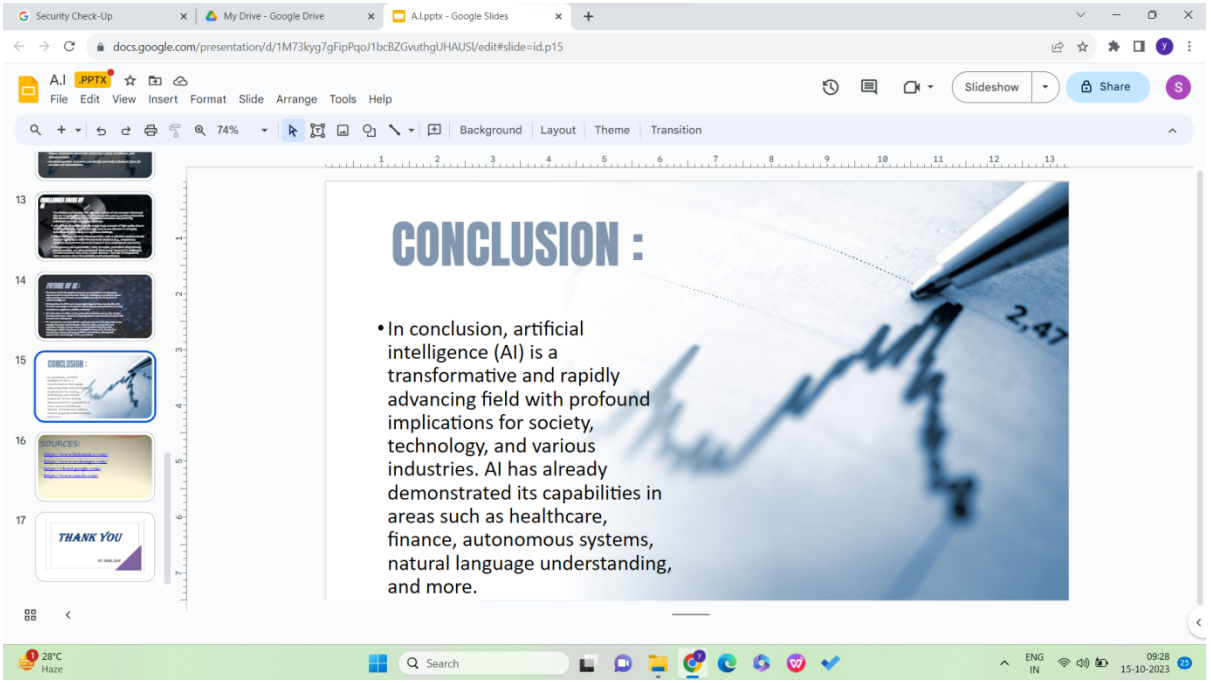
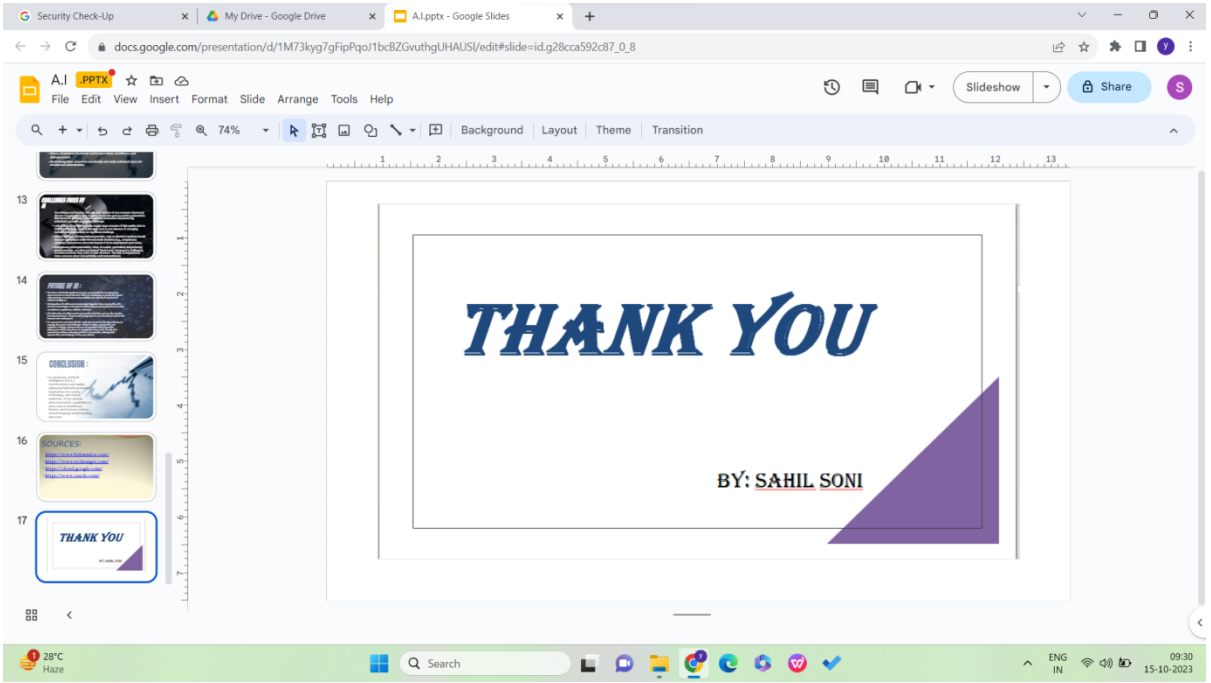

CHALLENGES FACES BY AI
Data Privacy and Security: The collection and use of vast amounts of personal data for AI applications raise concerns about data privacy and the potential for data breaches. Striking a balance between innovation and protecting individuals' privacy is an ongoing challenge.
Lack of Data: AI systems typically require large amounts of high-quality data to function effectively. In some domains, such as rare diseases or emerging technologies, data scarcity is a significant challenge.
Ethical Concerns: AI raises ethical questions, such as whether machines should have the capability to make life-and-death decisions (e.g., autonomous weapons) and concerns about the impact of AI on employment and society.
Transparency and Explainability: Many AI models, particularly deep learning neural networks, are often considered "black boxes" because it's challenging to understand how they arrive at their decisions. This lack of transparency raises concerns about accountability and trustworthiness.

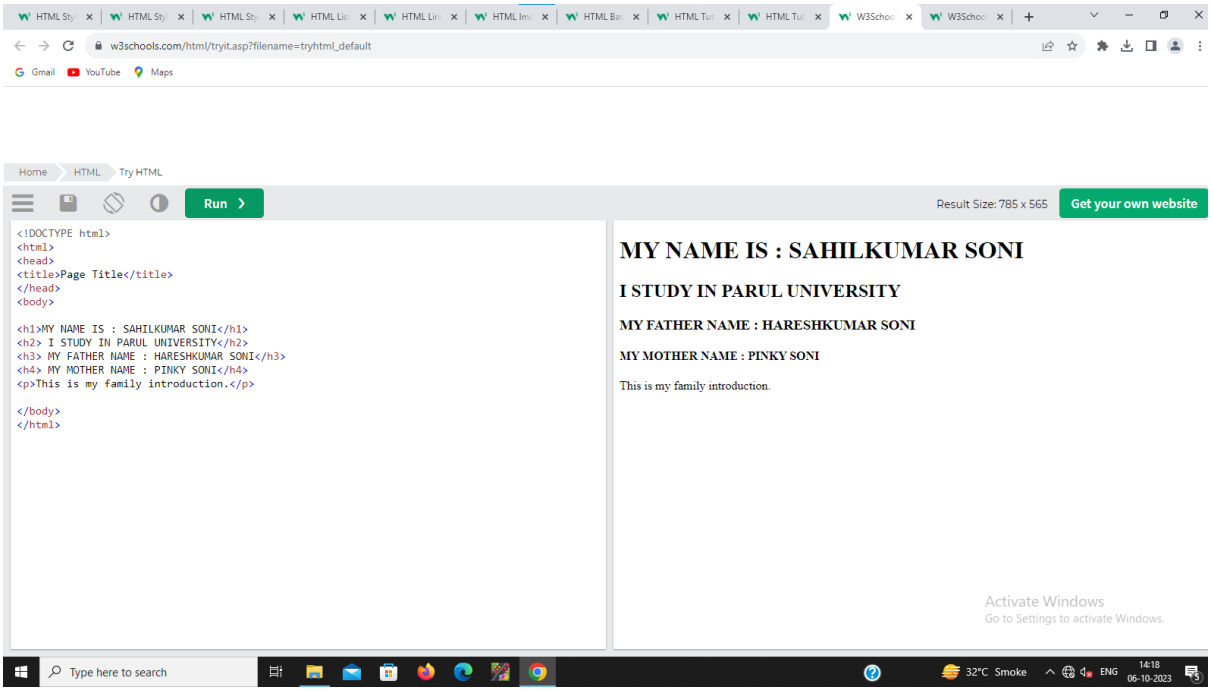

FUTURE OF AI :
The future of AI holds significant promise and potential for transformative advancements in various domains. While it's challenging to predict the future with certainty, several trends and possibilities are expected in the field of artificial intelligence
AI Integration: AI will become increasingly integrated into everyday life, with AI-driven technologies embedded in various devices and applications, including smartphones, appliances, vehicles, and more.
AI in Education: AI will be used to personalize education and provide adaptive learning experiences. AI-powered tutoring systems and educational content will become more widespread.
It's important to note that with the rapid advancement of AI, there will also be ongoing discussions and challenges related to ethics, privacy, bias, and regulation. Striking a balance between AI innovation and responsible deployment will be a key theme in shaping the future of AI. Overall, AI is expected to continue reshaping industries and societies, offering both opportunities and challenges in the years ahead.

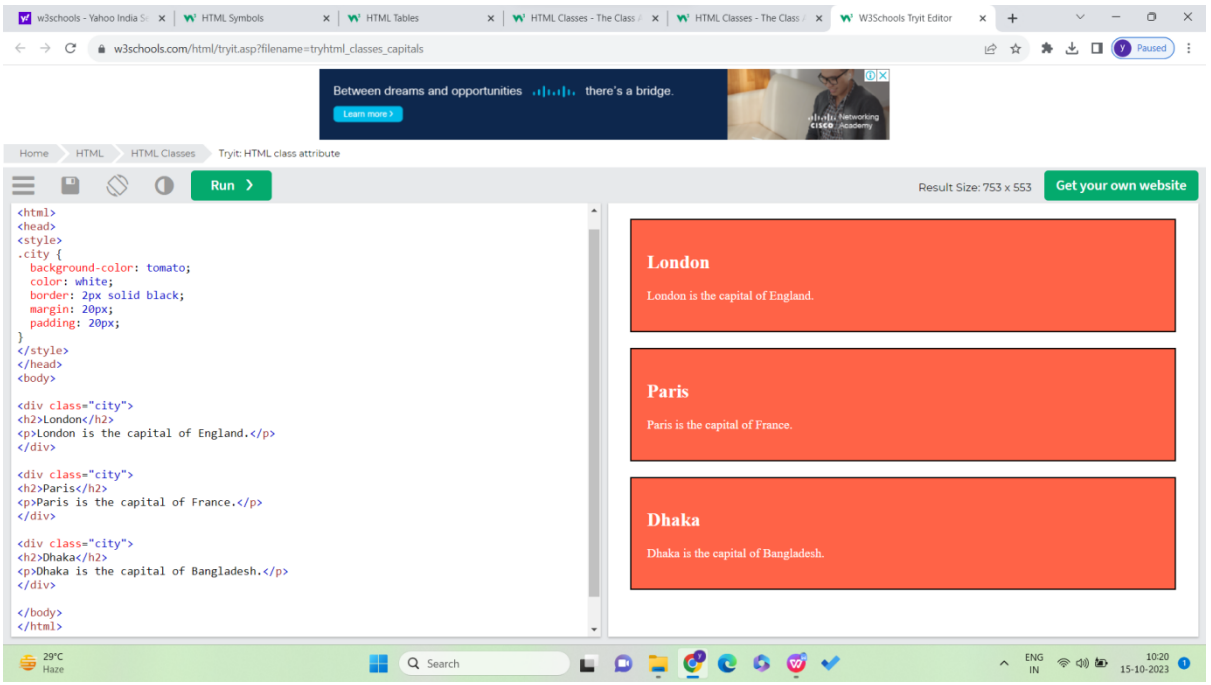

CONCLUSION :
• In conclusion, artificial intelligence (AI) is a transformative and rapidly advancing field with profound implications for society, technology, and various industries. AI has already demonstrated its capabilities in areas such as healthcare, finance, autonomous systems, natural language understanding, and more.

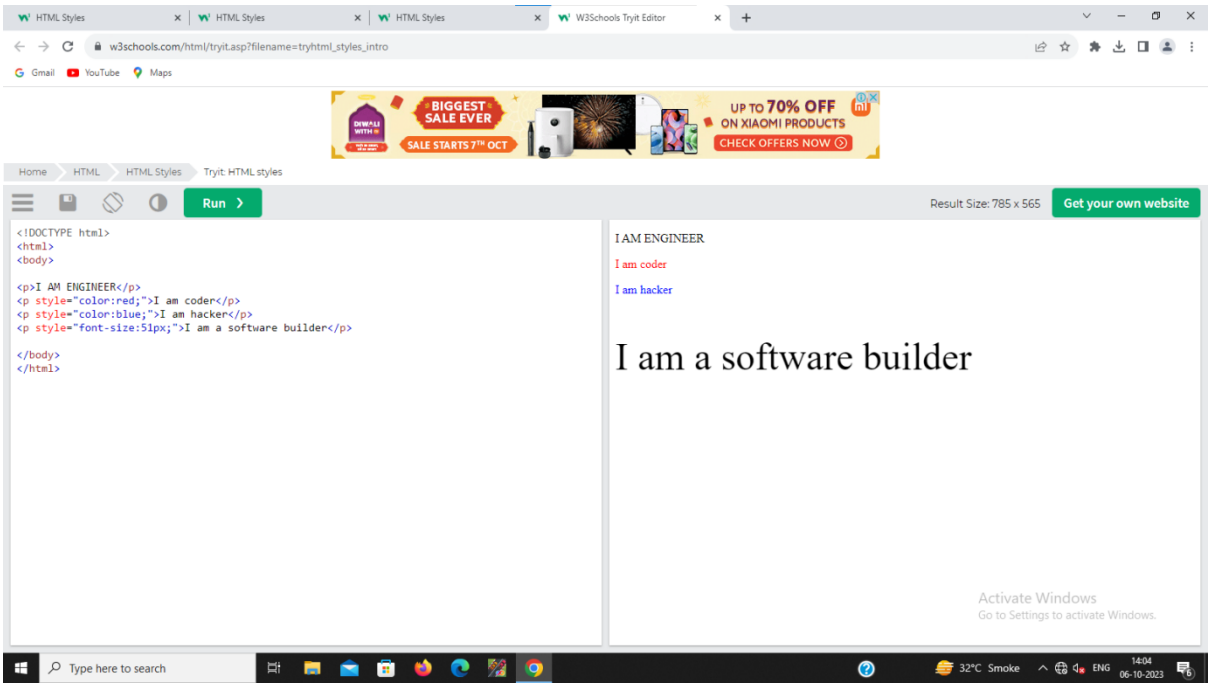

THANK YOU
BY: SAHIL SONI

PRACTICAL 3

AIM: Use of HTML to create simple web page.






HTML Styles
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Get your own website
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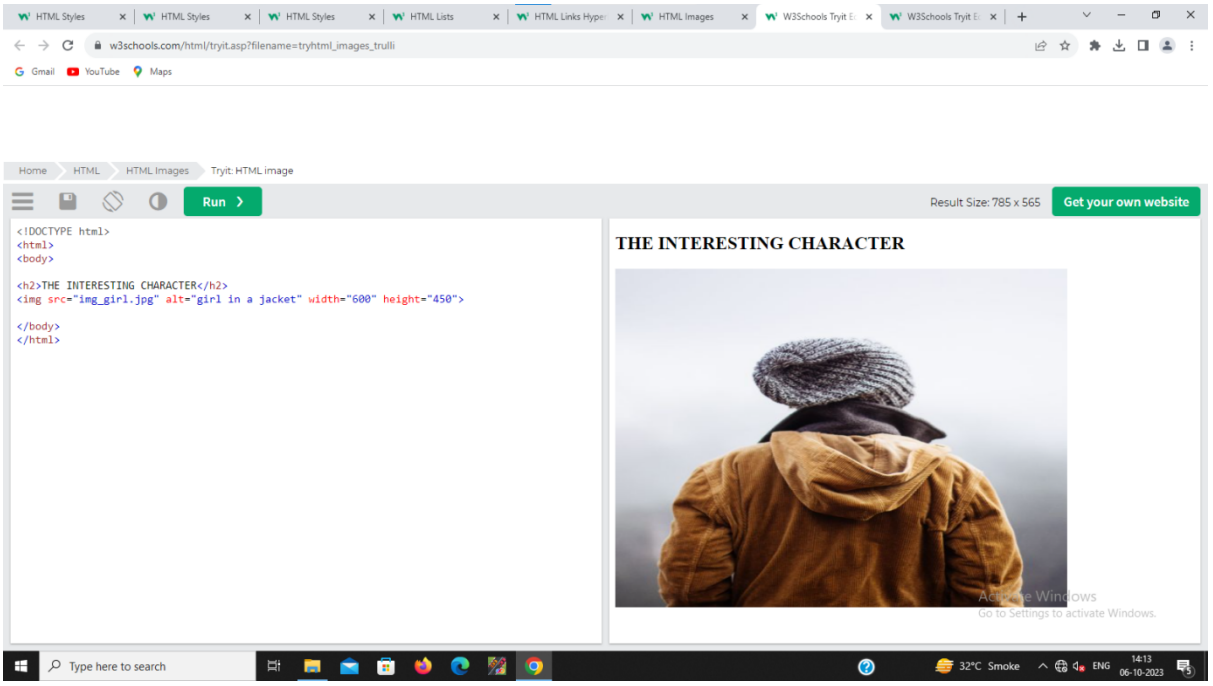
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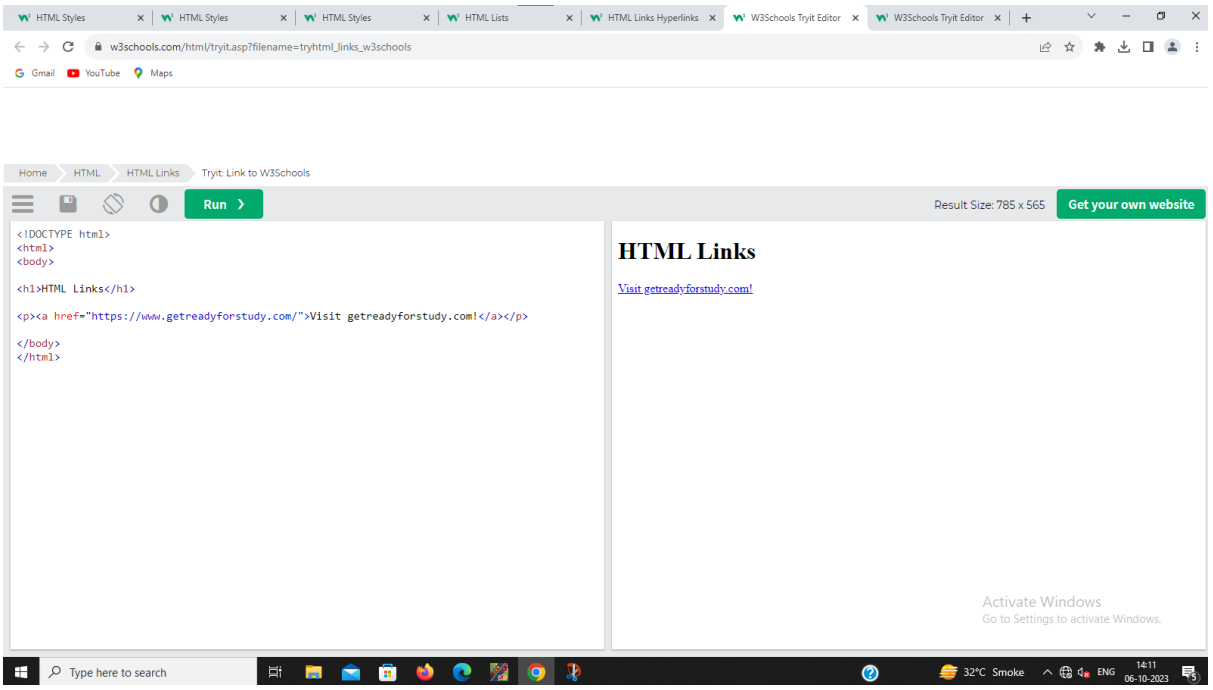
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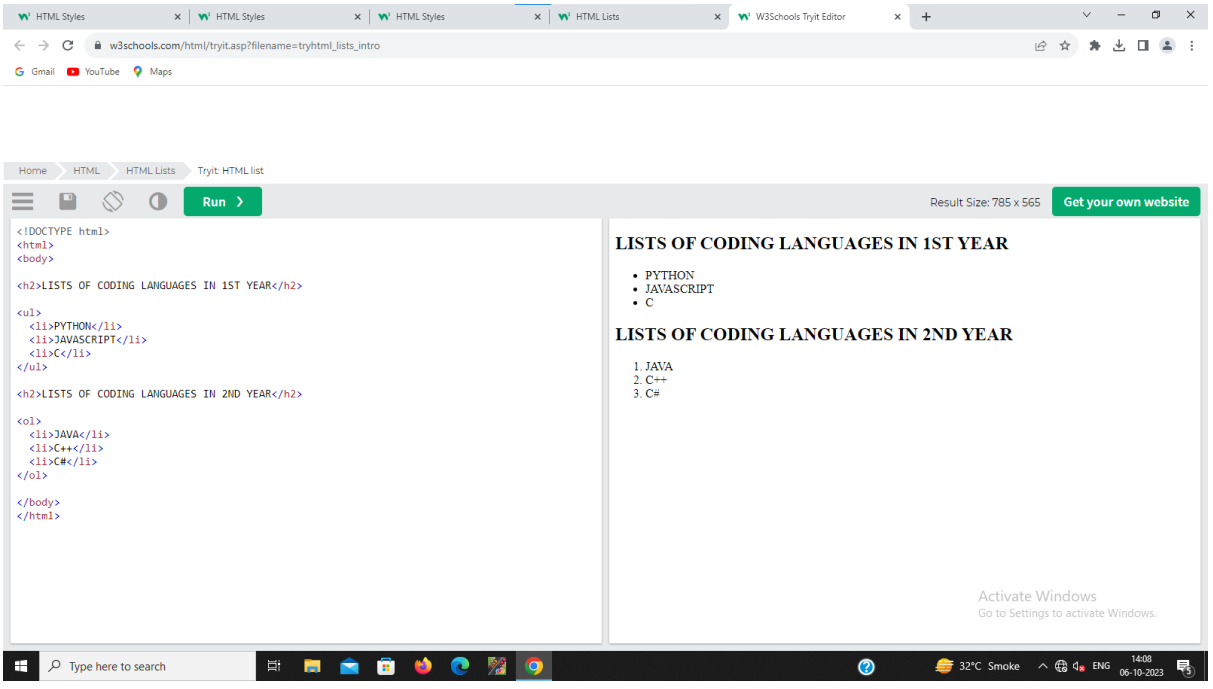
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Result Size: 785 x 565
Get your own website
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<h2>LISTS OF CODING LANGUAGES IN 1ST YEAR</h2>

PYTHON
JAVASCRIPT
C

<h2>LISTS OF CODING LANGUAGES IN 2ND YEAR</h2>

JAVA
C++
C#

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LISTS OF CODING LANGUAGES IN 1ST YEAR
PYTHON
JAVASCRIPT
C
LISTS OF CODING LANGUAGES IN 2ND YEAR
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2. C++
3. C#
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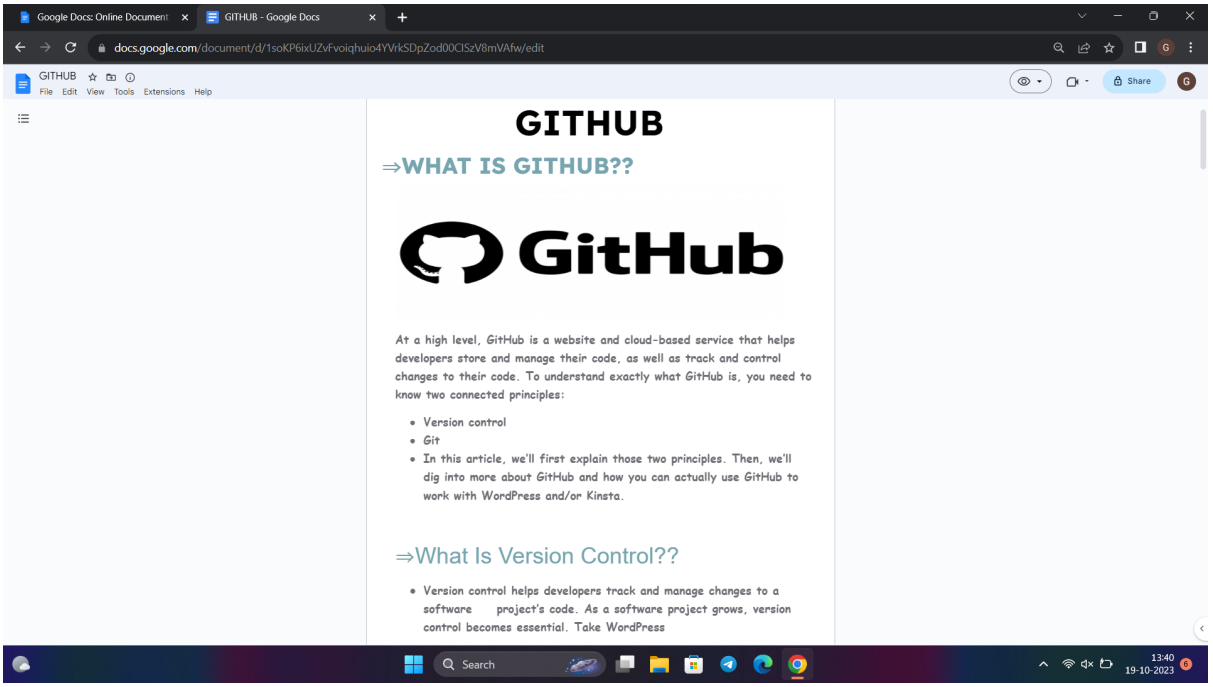
PRACTICAL 4

AIM: Creates and Edit documents using Google Docs.



GITHUB

⇒WHAT IS GITHUB??

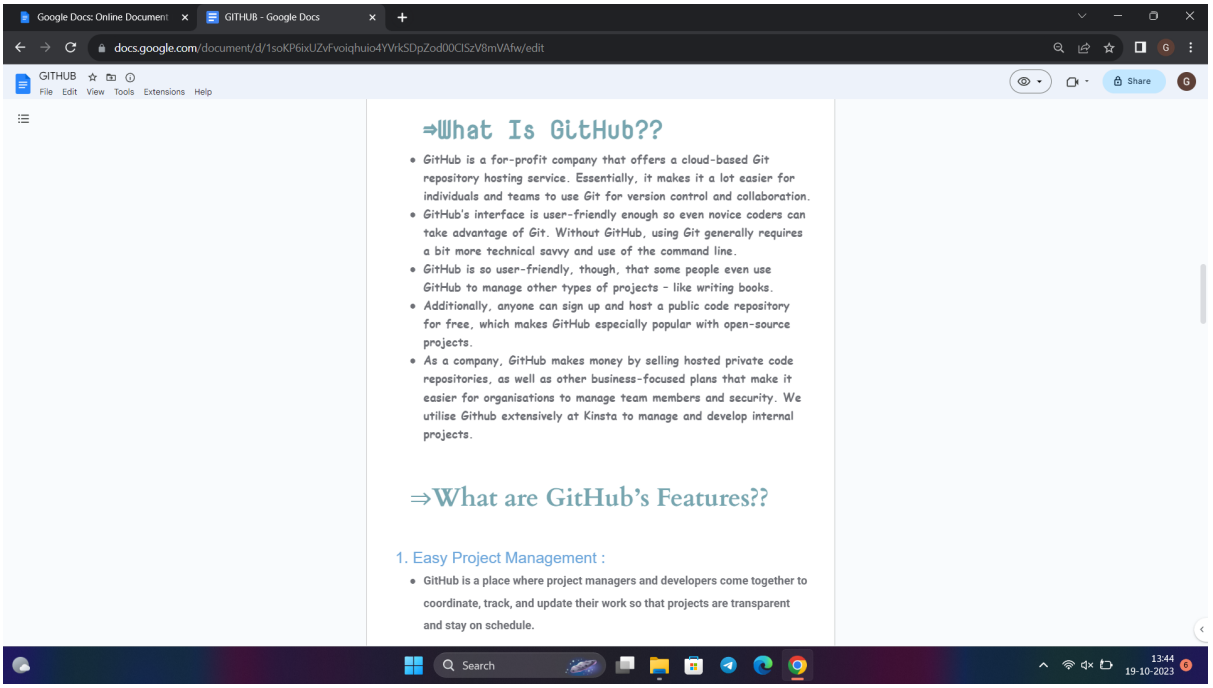
GitHub

At a high level, GitHub is a website and cloud-based service that helps developers store and manage their code, as well as track and control changes to their code. To understand exactly what GitHub is, you need to know two connected principles:

- Version control
- Git
- In this article, we'll first explain those two principles. Then, we'll dig into more about GitHub and how you can actually use GitHub to work with WordPress and/or Kinsta.

⇒What Is Version Control??

- Version control helps developers track and manage changes to a software project's code. As a software project grows, version control becomes essential. Take WordPress



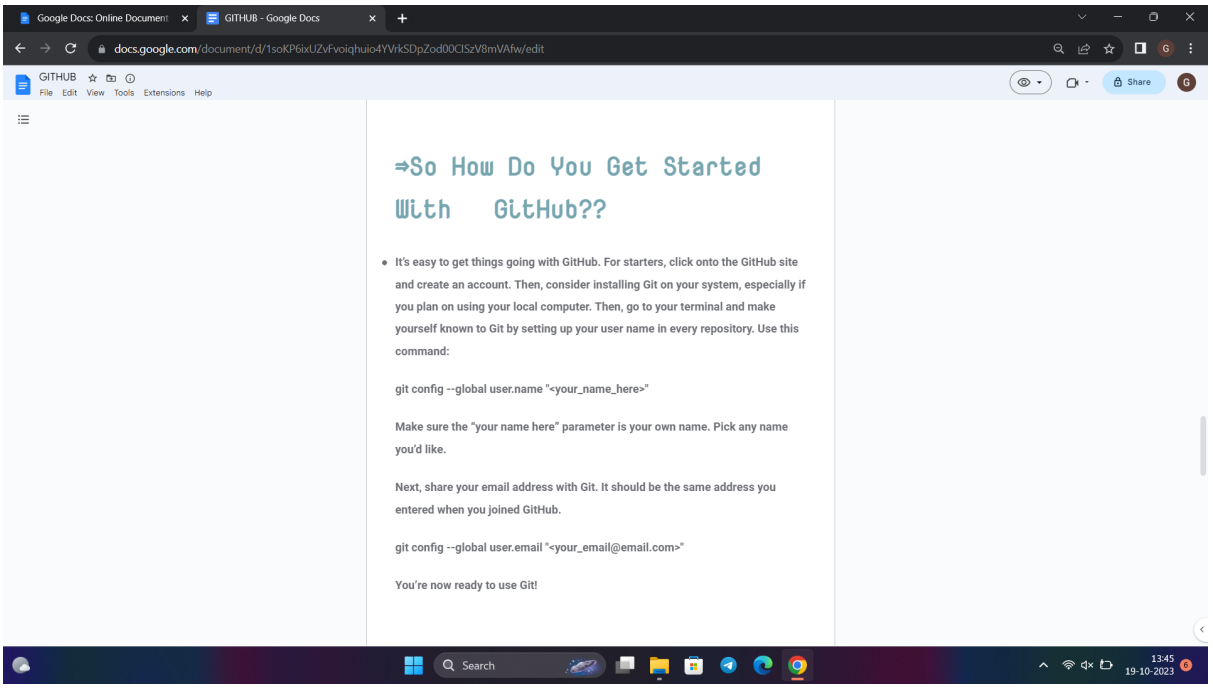
⇒What Is GitHub??

- GitHub is a for-profit company that offers a cloud-based Git repository hosting service. Essentially, it makes it a lot easier for individuals and teams to use Git for version control and collaboration.
- GitHub's interface is user-friendly enough so even novice coders can take advantage of Git. Without GitHub, using Git generally requires a bit more technical savvy and use of the command line.
- GitHub is so user-friendly, though, that some people even use GitHub to manage other types of projects – like writing books.
- Additionally, anyone can sign up and host a public code repository for free, which makes GitHub especially popular with open-source projects.
- As a company, GitHub makes money by selling hosted private code repositories, as well as other business-focused plans that make it easier for organisations to manage team members and security. We utilise Github extensively at Kinsta to manage and develop internal projects.

⇒What are GitHub's Features??

1. Easy Project Management :

- GitHub is a place where project managers and developers come together to coordinate, track, and update their work so that projects are transparent and stay on schedule.


Google Docs: Online Document
GITHUB - Google Docs
docs.google.com/document/d/1soKP6ixUZvFvoiqhuio4YVrkSDpZod00ClSzV8mVAfw/edit
GITHUB
File Edit View Tools Extensions Help
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⇒So How Do You Get Started With GitHub??
It's easy to get things going with GitHub. For starters, click onto the GitHub site and create an account. Then, consider installing Git on your system, especially if you plan on using your local computer. Then, go to your terminal and make yourself known to Git by setting up your user name in every repository. Use this command:
git config --global user.name "<your_name_here>"
Make sure the "your name here" parameter is your own name. Pick any name you'd like.
Next, share your email address with Git. It should be the same address you entered when you joined GitHub.
git config --global user.email "<your_email@email.com>"
You're now ready to use Git!
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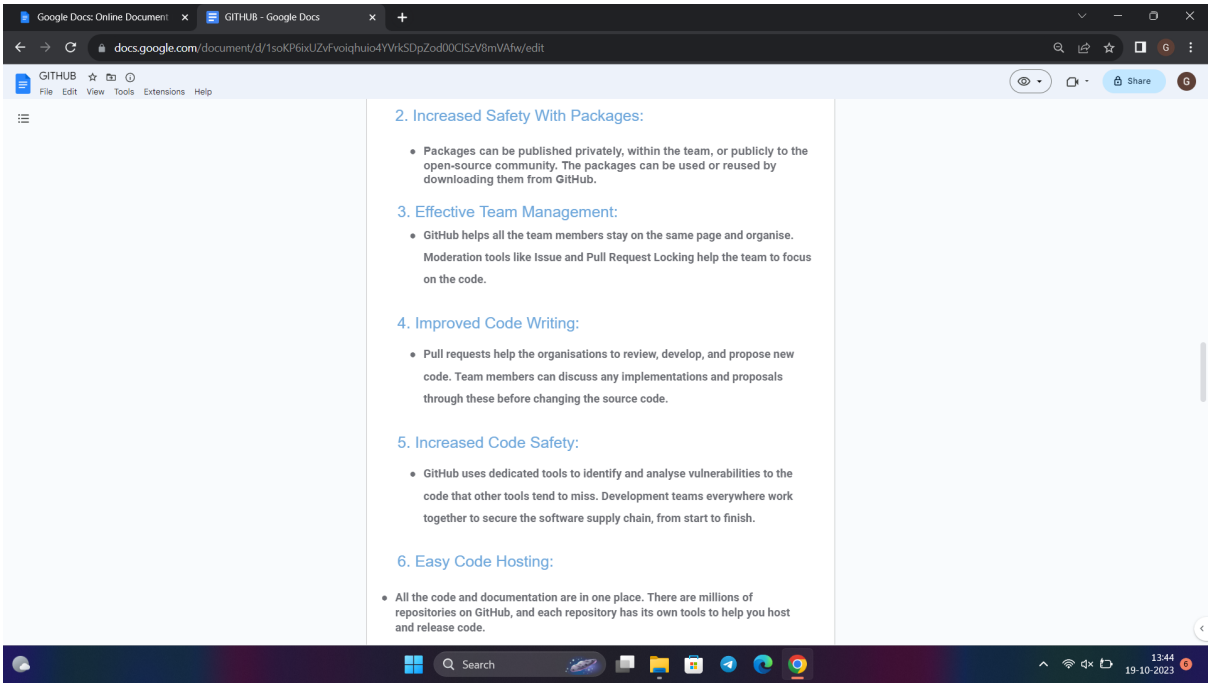
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GITHUB
File Edit View Tools Extensions Help
Share
2. Increased Safety With Packages:
Packages can be published privately, within the team, or publicly to the open-source community. The packages can be used or reused by downloading them from GitHub.
3. Effective Team Management:
GitHub helps all the team members stay on the same page and organise. Moderation tools like Issue and Pull Request Locking help the team to focus on the code.
4. Improved Code Writing:
Pull requests help the organisations to review, develop, and propose new code. Team members can discuss any implementations and proposals through these before changing the source code.
5. Increased Code Safety:
GitHub uses dedicated tools to identify and analyse vulnerabilities to the code that other tools tend to miss. Development teams everywhere work together to secure the software supply chain, from start to finish.
6. Easy Code Hosting:
All the code and documentation are in one place. There are millions of repositories on GitHub, and each repository has its own tools to help you host and release code.
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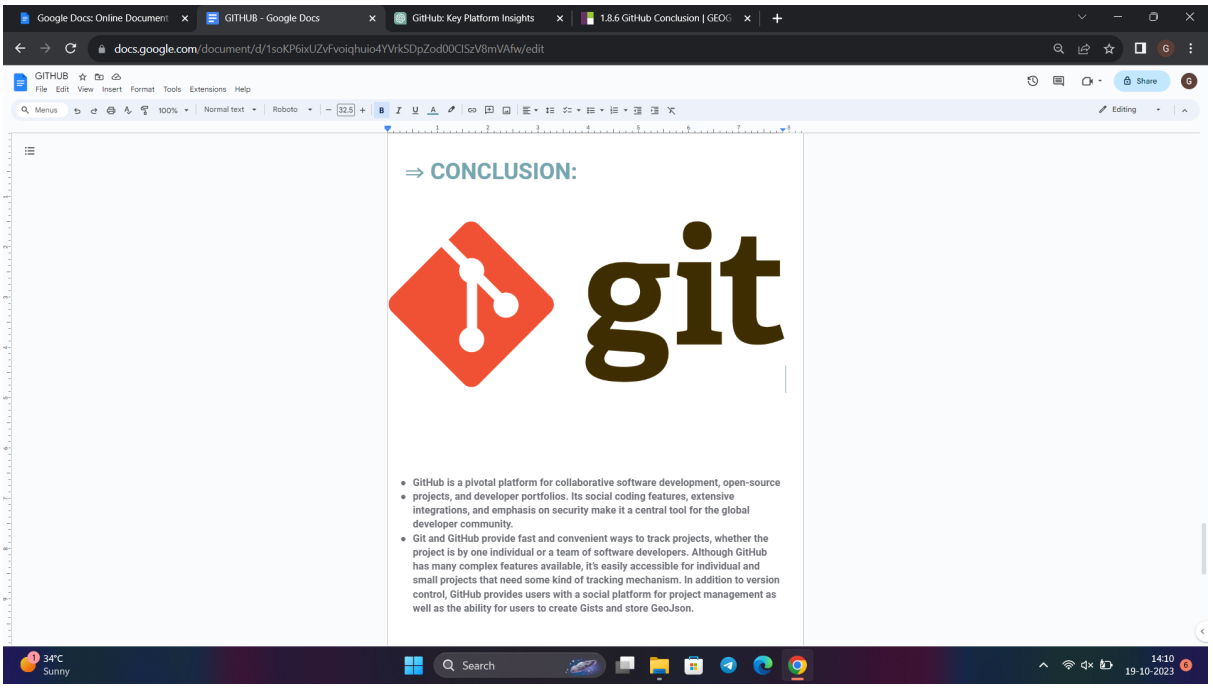
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1.8.6 GitHub Conclusion | GEOG
docs.google.com/document/d/1soKP6ixUZvFvoiqhuio4YVrkSDpZod00ClSzV8mVAfw/edit
GITHUB
⇒ CONCLUSION:
git
GitHub is a pivotal platform for collaborative software development, open-source projects, and developer portfolios. Its social coding features, extensive integrations, and emphasis on security make it a central tool for the global developer community.
Git and GitHub provide fast and convenient ways to track projects, whether the project is by one individual or a team of software developers. Although GitHub has many complex features available, it's easily accessible for individual and small projects that need some kind of tracking mechanism. In addition to version control, GitHub provides users with a social platform for project management as well as the ability for users to create Gists and store GeoJson.
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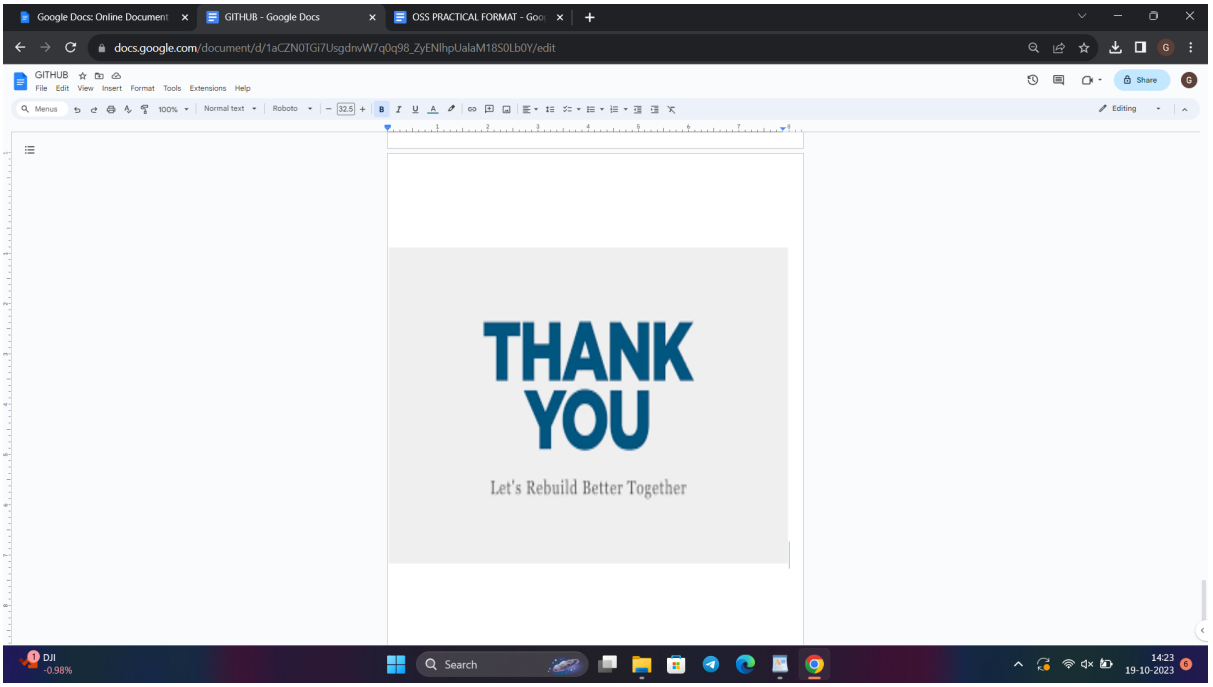
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Let's Rebuild Better Together
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PRACTICAL 5

AIM: Demonstration GitHub Facility.