

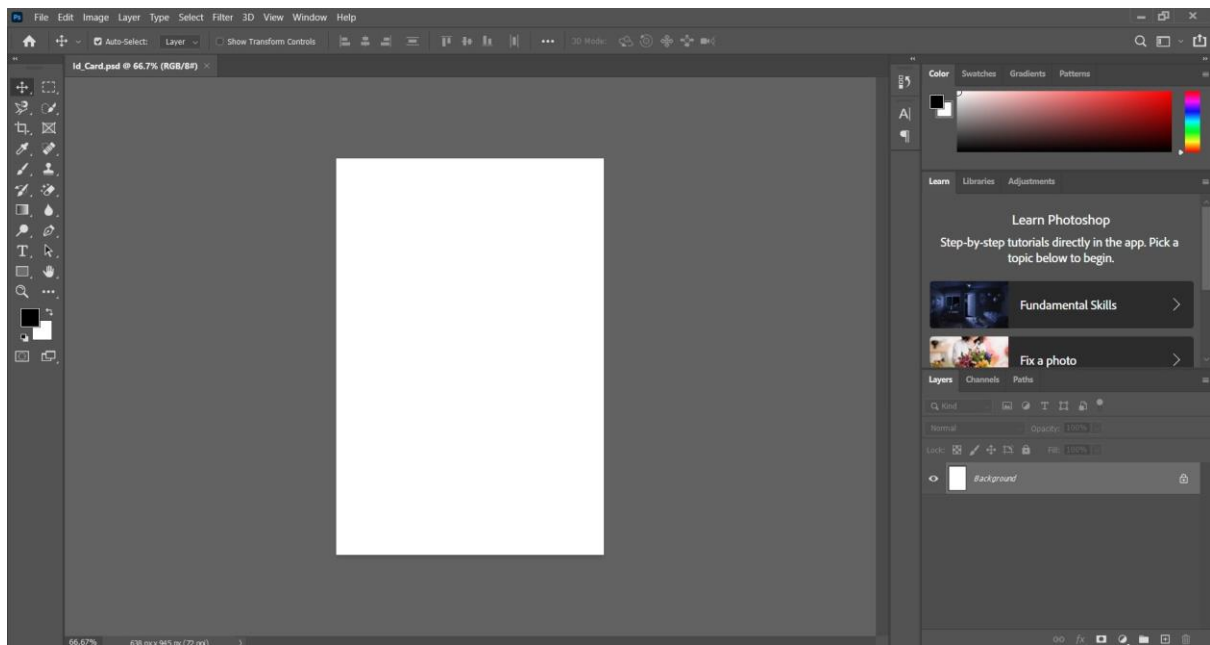
Lab 2: Create College ID Card Using Photoshop

Introduction to Adobe Photoshop

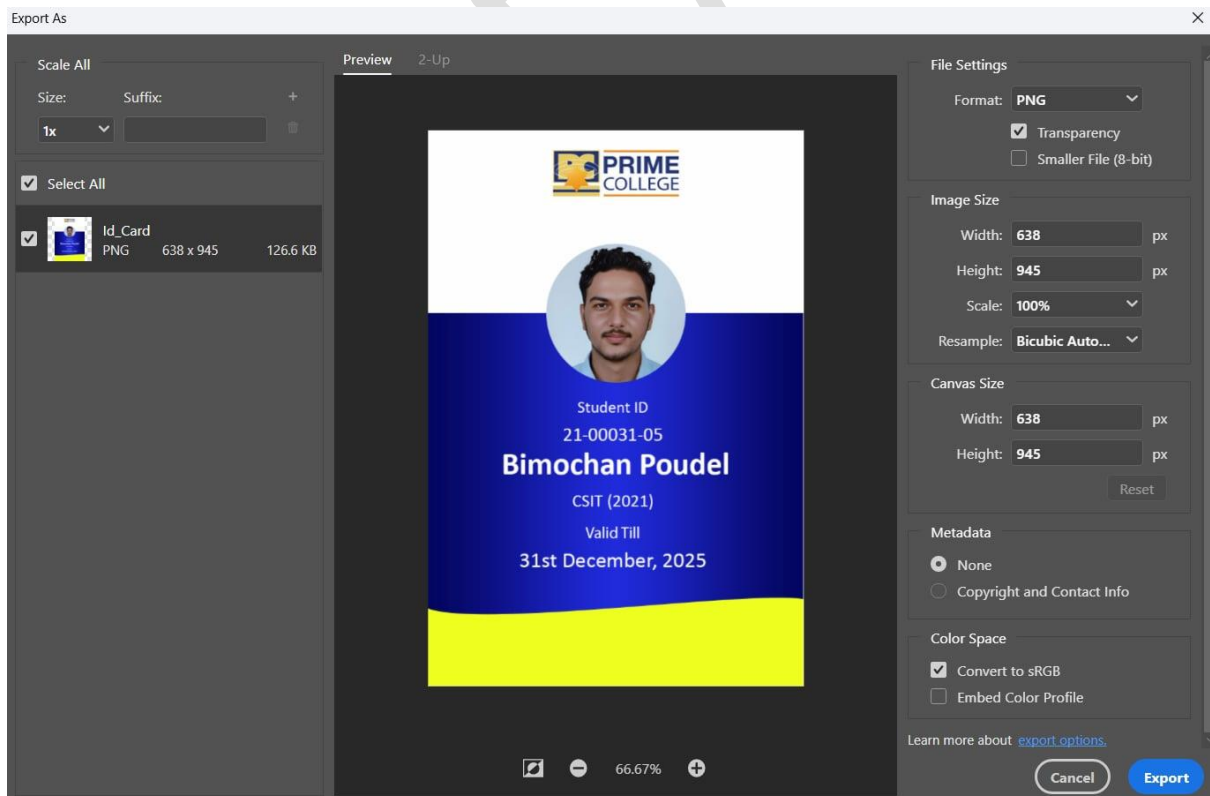
Adobe Photoshop is the industry-standard software for photo editing and graphic design. Developed by Adobe Inc., Photoshop has become synonymous with digital image manipulation since its release in 1988. It provides a comprehensive suite of tools for tasks ranging from simple retouching to complex 3D designs. Users can perform basic edits like cropping and color correction, as well as advanced techniques such as compositing, masking, and applying intricate filters. Photoshop supports a wide range of file formats, ensuring compatibility with other design software. Its powerful features, including layers, adjustment tools, and custom brushes, make it indispensable for photographers, designers, and digital artists.

Tools Used

1. **Move Tool** - The Move Tool allows users to select and move objects or layers within the canvas. It is fundamental for arranging elements and is often used in conjunction with other tools to position graphics precisely.
2. **Rectangle Tool** - The Rectangle Tool is used to create rectangular shapes and paths. It can be customized with different stroke and fill options, making it versatile for creating buttons, frames, and other design elements.
3. **Gradient Tool** - The Gradient Tool applies a gradient fill to an area or selection. Users can choose from various gradient types and colors to create smooth transitions, adding depth and dimension to their designs.
4. **Warp Tool** - The Warp Tool enables users to distort and transform images or shapes by dragging control points. This tool is particularly useful for fitting images into complex shapes or creating artistic effects.
5. **Type Tool** - The Type Tool allows users to add and edit text within their projects. With options for font, size, style, and alignment, it is essential for creating titles, captions, and other text elements in graphic design.
6. **Color Picker** - The Color Picker is a feature that lets users select and customize colors. It provides a range of options, including RGB, CMYK, and hex values, to ensure precise color matching and consistency.
7. **Adjustment Layer** - Adjustment Layers for Brightness/Contrast and Color Balance enable non-destructive editing of images. Brightness/Contrast adjusts the overall light and dark tones, while Color Balance fine-tunes the color levels to achieve the desired look.
8. **Clipping Mask** - A Clipping Mask allows users to use the content of one layer to mask the layers above it. This tool is useful for creating complex shapes and designs, as it confines the visible area of the layers to the shape of the underlying layer.



Blank Canvas of Adobe Photoshop



Export Window



Student ID

21-00031-05

Bimochan Poudel

CSIT (2021)

Valid Till

31st December, 2025

Finished ID Card

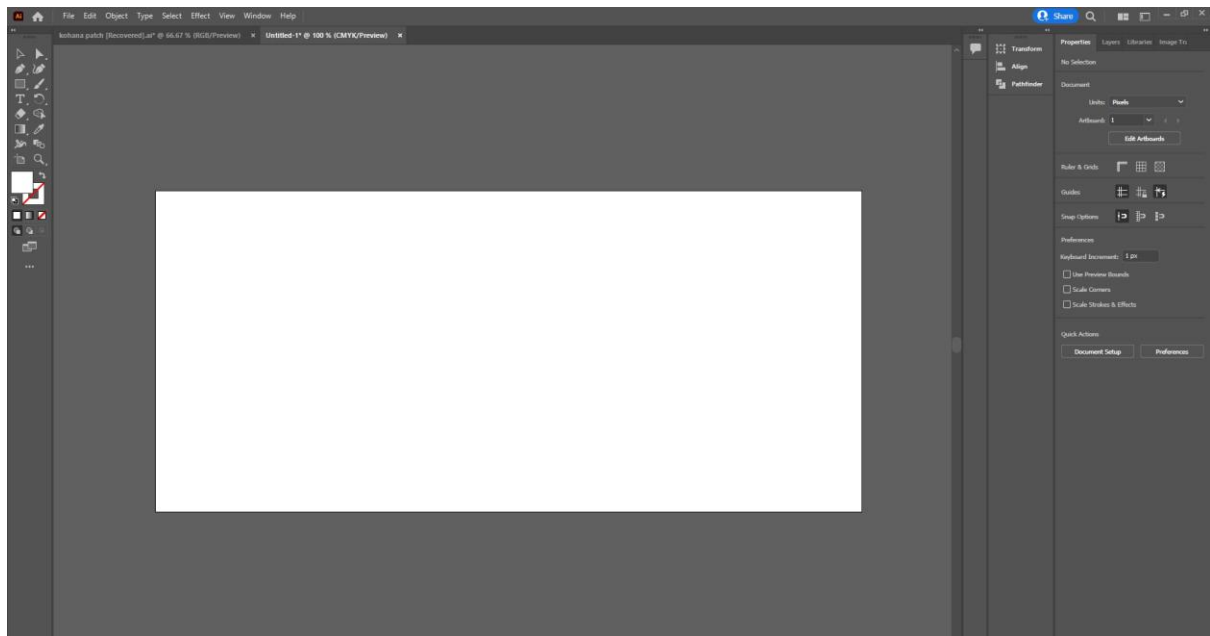
Lab 3: Create college logo in Adobe Illustrator

Introduction to Adobe Illustrator

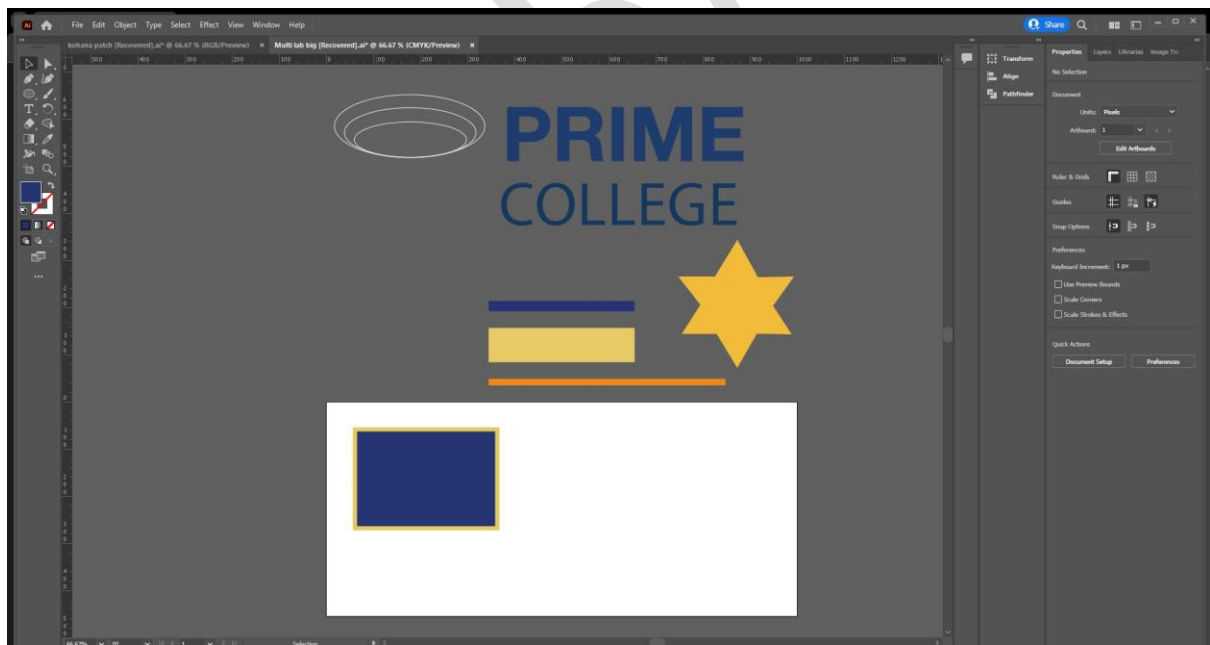
Adobe Illustrator is a powerful vector graphics editor widely used by designers and artists for creating a diverse range of digital artwork, including logos, illustrations, and complex graphics. Unlike raster-based applications, Illustrator utilizes mathematical constructs to create vector images. This allows infinite scalability without loss of quality. This makes it an ideal tool for designing logos, which need to be resized for various applications without compromising their integrity.

Tools Used

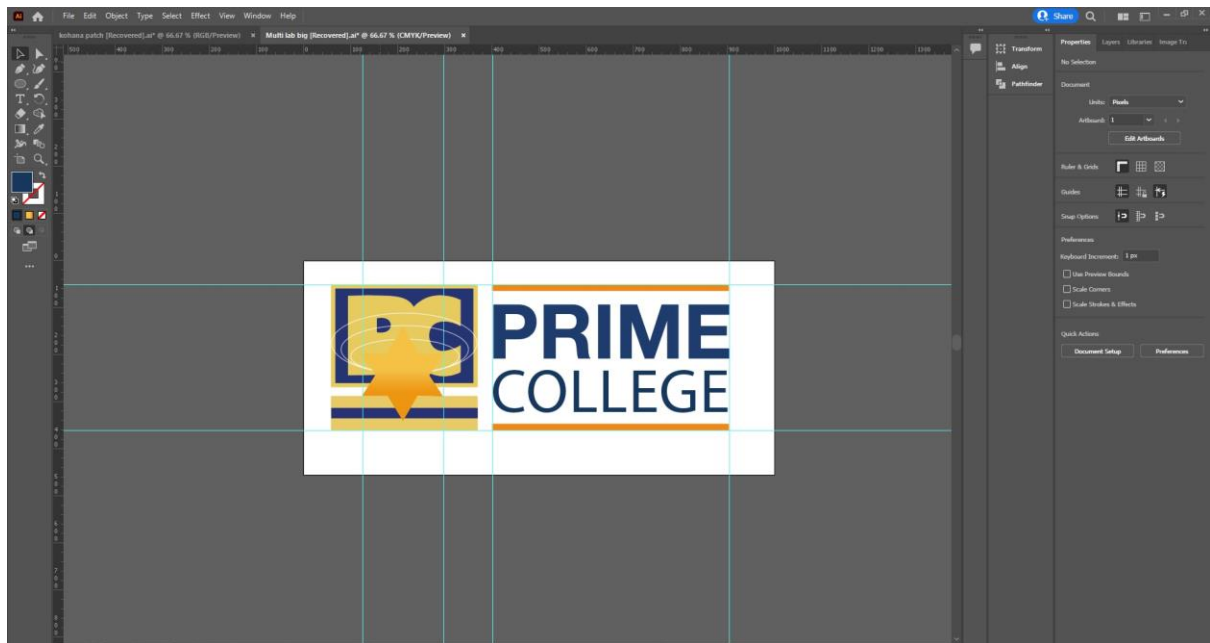
1. **Selection Tool (V):** This tool is used for selecting and moving objects within the artboard. It allows users to click on objects to select them and then drag them to a new location.
2. **Direct Selection Tool (A):** This tool allows users to select and manipulate individual anchor points or path segments of an object, providing precise control over shapes and paths.
3. **Pen Tool (P):** A fundamental tool for creating custom paths and shapes. It allows for the drawing of straight and curved lines by placing anchor points and adjusting their handles.
4. **Shape Tools (such as Rectangle (M), Ellipse (L), and Polygon):** These tools enable the creation of basic geometric shapes, which can serve as the foundation for more complex designs. Each shape tool allows for customization of size, corners, and other properties.
5. **Type Tool (T):** This tool is used for adding and formatting text. It allows users to create text boxes, adjust font size, style, and alignment, and apply effects to text elements.
6. **Color Picker and Swatches:** These tools provide options for selecting and applying colors to objects. The Color Picker offers a broad spectrum of colors, while Swatches store specific color selections for consistent use throughout the design.
7. **Pathfinder Tool:** This tool helps in combining, dividing, and subtracting shapes to create more complex forms. It offers various options such as Unite, Minus Front, Intersect, and Exclude to manipulate overlapping shapes.
8. **Layers Panel:** Essential for organizing different elements within a design. The Layers Panel allows users to group objects, lock layers, and control the visibility of each layer, making it easier to manage complex compositions.



Blank Canvas



Making Logo



Completed Logo



Lab 4: Create a font using Font Creator

Introduction to Font Creator

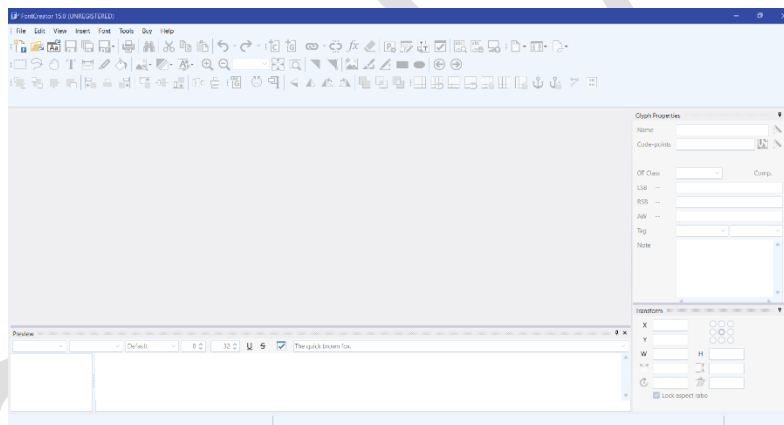
High Logic Font Creator is a powerful tool designed for creating and editing TrueType and OpenType fonts. It simplifies the process of designing fonts from scratch, modifying existing typefaces, and refining characters with precision. This software stands out due to its ability to handle complex scripts, support for Unicode, and robust set of tools that streamline the workflow for creating professional-quality fonts.

Tools in High Logic Font Creator

- Drawing Tools: Pen, Brush, Shape, Freehand drawing
- Editing Tools: Move, Scale, Rotate, Skew
- Text Tools: Kerning adjustment, Spacing control, Baseline alignment
- Transformation Tools: Mirror, Flip, Perspective
- Measurement Tools: Rulers, Guides, Grid
- Import/Export Tools: Import existing fonts, Export to various font formats (e.g., TTF, OTF)
- Preview Tools: Real-time preview, Sample text display
- Glyph Management Tools: Add new glyphs, Edit existing glyphs, Glyph sorting and organizing

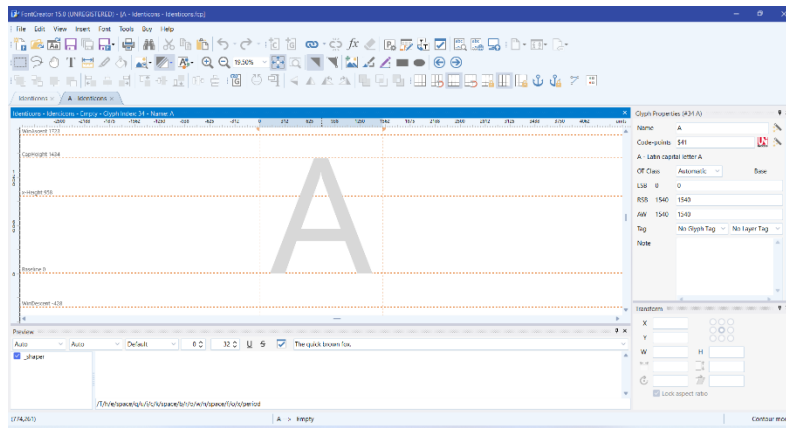
Creating a font

- Launch High Life Font Creator



- Setup Font properties
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- Open Glyph Editor



- Draw the font using brush or open an SVG image & align within the guidelines

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- Run validator wizard for corrections

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- Export the font, install & use
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Lab 5: Video Editing

Introduction to DaVinci Resolve

DaVinci Resolve, developed by Blackmagic Design, is a comprehensive video editing and post-production software known for its powerful tools in video editing, color grading, visual effects, motion graphics, and audio post-production. Its integrated features provide a streamlined workflow, making it a favorite among film and TV professionals. The software supports high-resolution formats and is scalable, accommodating both individual creators and large teams.

Pages in DaVinci Resolve:

- Cut Page: For quick edits, trimming, and timeline management.
- Edit Page: Advanced editing, effects, and transitions.
- Fusion Page: Visual effects, motion graphics, and compositing.
- Color Page: Color correction, grading, and look development.
- Fairlight Page: Audio editing, mixing, and mastering.
- Deliver Page: Exporting and rendering final projects.

Steps to Edit a Video in DaVinci Resolve:

- Import and Organize Media:

Open DaVinci Resolve, create a new project, and import your video, audio, and image files into the Media Pool. Arrange media in bins for easy access and preview/trimming in the Media Page.

- Assemble and Refine the Timeline:

Move to the Edit Page to drag clips onto the timeline, arrange them, and use tools like Blade and Trim for editing. Refine your edit by adjusting transitions, durations, and timing.

- Add Effects and Visuals:

Switch to the Fusion Page to incorporate visual effects and motion graphics using nodes for keying, tracking, and compositing.

- Color Grading and Correction:

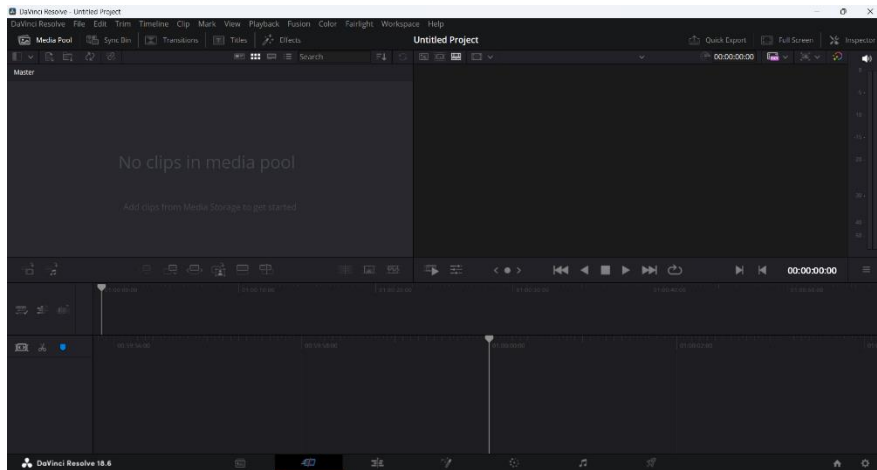
On the Color Page, adjust exposure, contrast, and color balance using color wheels, curves, and scopes. Apply LUTs or create custom grades.

- Audio Post-Production:

Use the Fairlight Page to edit audio, adjust levels, add effects like reverb or EQ, and sync sound. Balance audio tracks with the built-in mixer.

- Export the Final Video:

Go to the Deliver Page to select export settings, format, resolution, and destination. Add to Render Queue and start rendering to finalize your video.



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Lab 6: Audio Editing

Introduction to Audacity

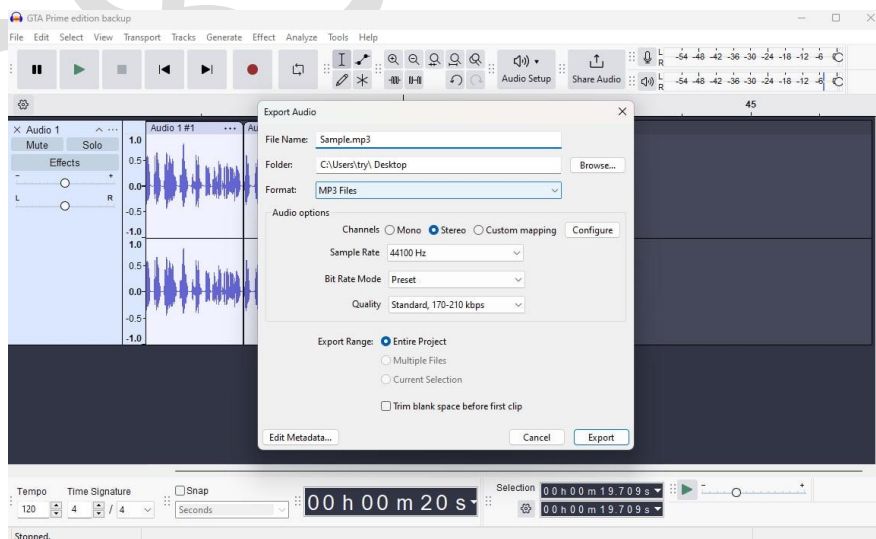
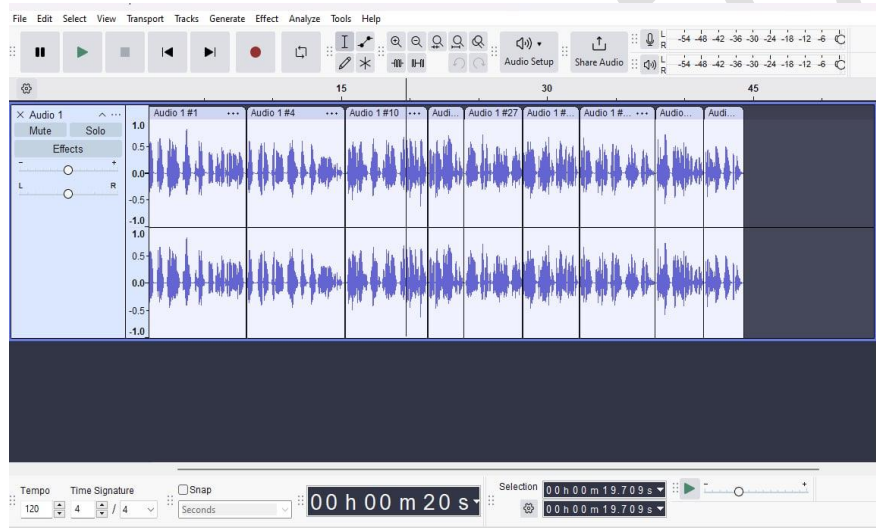
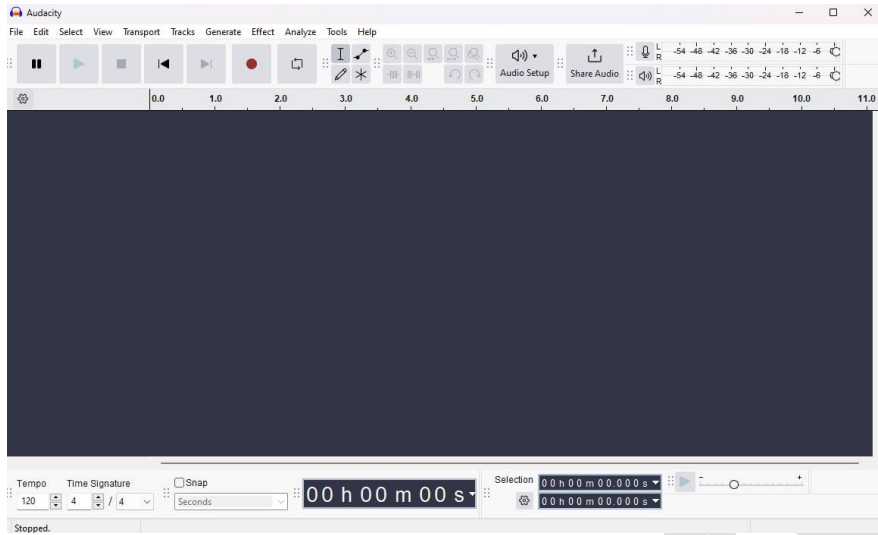
Audacity is a free, and open-source software application designed for audio recording, editing, and mixing. Audacity is a free and open-source audio recording, editing, and mixing software available for Windows, macOS, and Linux. It enables users to record live audio through microphones or mixers and digitize recordings from media formats like cassette tapes or vinyl. With multi-track editing capabilities, Audacity is ideal for projects involving layered sounds, such as music production, voiceovers, and podcasts.

Key Features:

- **Recording & Importing:** Record live audio or digitize from other media formats.
- **Multi-Track Editing:** Work on multiple audio tracks simultaneously for complex projects.
- **Built-In Effects:** Apply effects like reverb, echo, and pitch correction to enhance or modify audio.
- **Noise Reduction:** Eliminate unwanted background noise for clearer recordings.
- **File Format Support:** Import and export a variety of audio formats, including WAV, MP3, AIFF, and OGG.
- **Audio Analysis Tools:** Use spectrogram views and frequency analysis for detailed examination of audio files.

Tools in Audacity:

- **Selection Tool:** Select specific audio portions for precise editing.
- **Envelope Tool:** Adjust volume levels dynamically to create smooth transitions or emphasize sections.
- **Draw Tool:** Manually modify the waveform to correct small imperfections.
- **Zoom Tool:** Zoom in or out of the waveform for detailed or broad views.
- **Time Shift Tool:** Move audio tracks along the timeline for synchronization.
- **Multi-Tool:** Combines multiple tool functions for flexible editing.
- **Cut, Copy, and Paste:** Standard tools for removing, duplicating, or rearranging audio segments.
- **Noise Reduction:** Removes background noise to improve audio clarity.
- **Equalization:** Adjusts frequency balance to fine-tune sound.
- **Compressor:** Reduces dynamic range to even out volume levels across a track.



Lab 7: Text Editing

Introduction to MS Word

Microsoft Word, developed by Microsoft, is a powerful word processing software used for creating, editing, and formatting text documents. It is a part of the Microsoft Office suite and is available on Windows, macOS, and as a web application. Widely used by students, professionals, and businesses, Word supports a variety of document types from simple letters to complex reports and manuscripts.

Key Features:

- **Document Creation:** Create and format documents with extensive tools and templates for reports, essays, resumes, and more.
- **Text Formatting:** Customize text with options for font styles, sizes, colors, and effects such as bold, italic, underline, and strikethrough.
- **Paragraph Formatting:** Adjust text alignment, line spacing, indentation, and paragraph spacing for effective content organization.
- **Multimedia Integration:** Incorporate images, charts, tables, and other elements to enhance the visual appeal and informativeness of documents.
- **Collaboration:** Enable real-time editing and commenting for collaborative work via cloud integration.
- **Integration with Office Applications:** Import data from Excel, create mail merges, and integrate content from other Office programs.
- **Review and Editing Tools:** Utilize spell check, grammar check, track changes, and comments for polishing documents.

Tools in Microsoft Word:

- **Text Formatting:** Customize font style, size, color, and effects.
- **Paragraph Formatting:** Control text alignment, spacing, and indentation.
- **Styles and Themes:** Use predefined styles and themes for consistent formatting.
- **Insert Tools:** Add images, tables, charts, shapes, hyperlinks, and symbols.
- **Headers and Footers:** Add headers, footers, and page numbers for improved structure.
- **Table of Contents:** Generate a table of contents based on document headings.
- **Review Tools:** Utilize spell check, grammar check, track changes, and comments.
- **Mail Merge:** Create personalized documents by merging data from spreadsheets or databases.
- **Templates:** Access various pre-designed templates for different document types.
- **Navigation and Search:** Navigate and search within large documents with a table of contents and document map.
- **AutoCorrect and AutoFormat:** Automatically correct typing errors and format text as you type.

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