

**SAJJAL FAYYAZ**

**AICT**

**70171990**

**LECTURER SALMAN IRFAN**

**Lab : 1 to 6**

**Lab task no 1:**

**Sajjal Fayyaz CV :**

**Personal Information:**

**Name:** Sajjal Fayyaz

**Address:** Lahore

**Phone number:**0345678923456

**Email :** Sajjalfayyaz@gmail.com

**Objective:**

I am eager to pursue a career in engineering, with a focus on solving complex problems through innovative and sustainable solutions. My goal is to apply my technical skills and creativity to design and optimize systems that improve efficiency and contribute to the advancement of technology. I aim to specialize in engineering field and work on projects that drive progress and positively impact society.

**Education:**

- **Currently pursuing a Bachelor's in Computer Science (CS)** – First Semester
- **F.S.C (Pre-Medical)** – 2023
- **Matriculation (Mathematics & Science)** – 2021

### **Skills:**

- **Cloud Computing:** AWS, Microsoft Azure, Google Cloud
- **Mobile App Development:** Android Studio, React Native
- **Version Control:** Git, GitHub, GitLab
- **Frameworks & Libraries:** Angular, React, Node.js, Django
- **Data Analysis:** Pandas, NumPy, Matplotlib, Jupyter Notebook
- **Networking:** TCP/IP, HTTP, DNS, VPN

### **Experience:**

#### **Volunteer, Computer Science Club:**

- Organized coding workshops for first-year students, teaching programming languages such as Python and Java.
- Mentored students in solving complex programming problems and preparing for coding competitions.
- Assisted in developing the club's website and managed its content using WordPress

### **Lab task no 2:**

#### **INSTALLATION OF ACTIVE PRESENTER**

- **Search on google: ACTIVE PRESENTER**

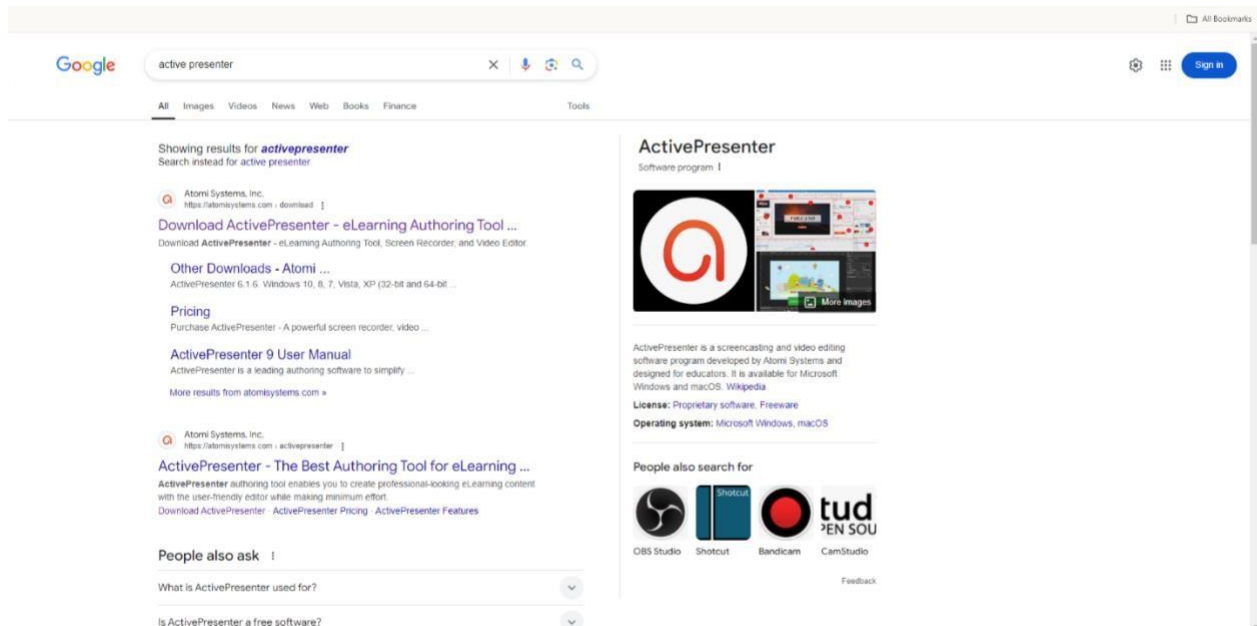


figure 1: Open google and search Active presenter

○ Download active presenter <https://atomisystems.com/download/>-

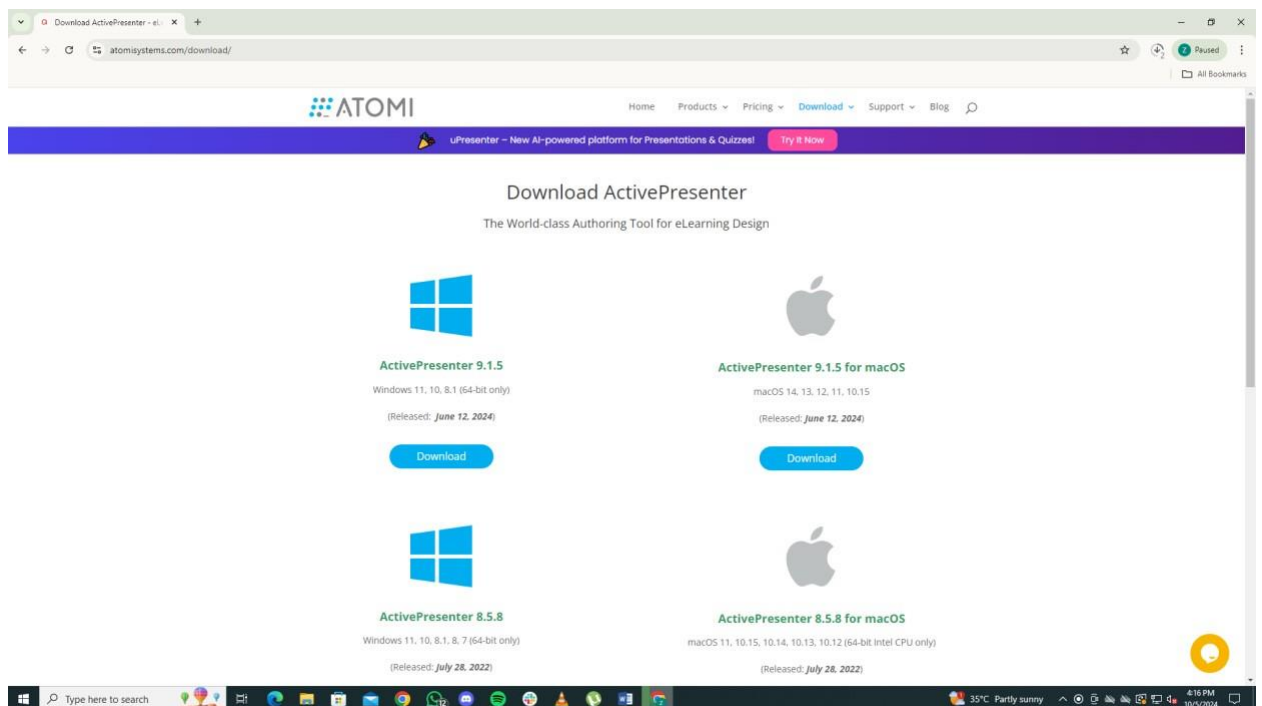


Figure 2: Now according to your need download it on window or MACOS

## ○ Installing

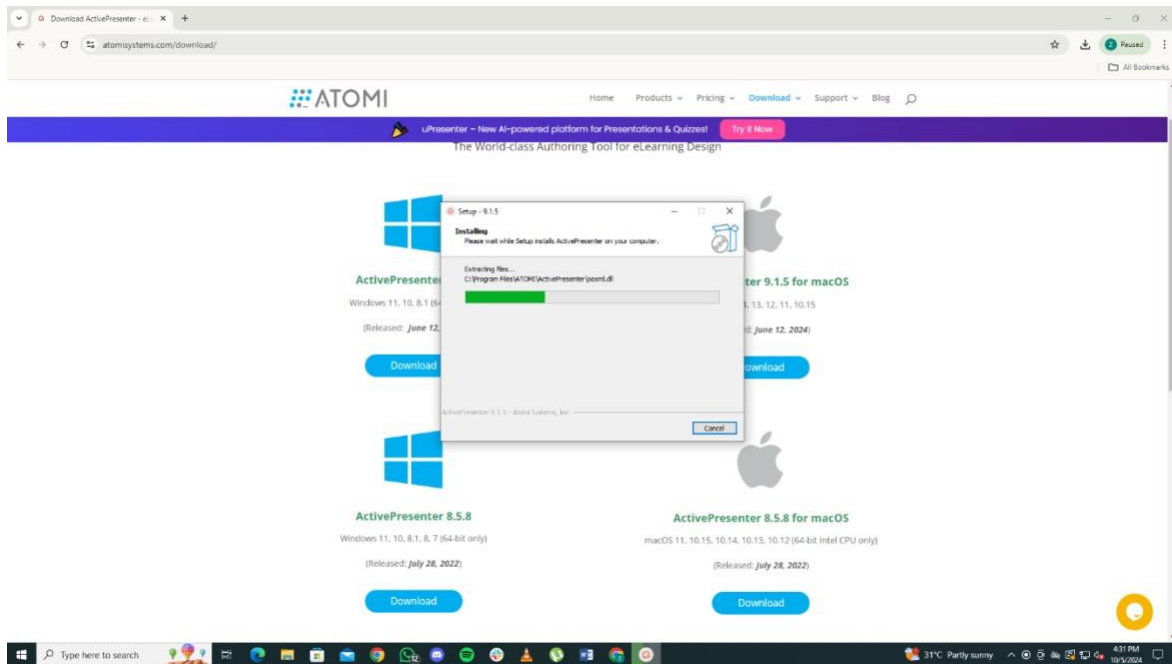


Figure 3: Installing in pc

## ○ Finished:

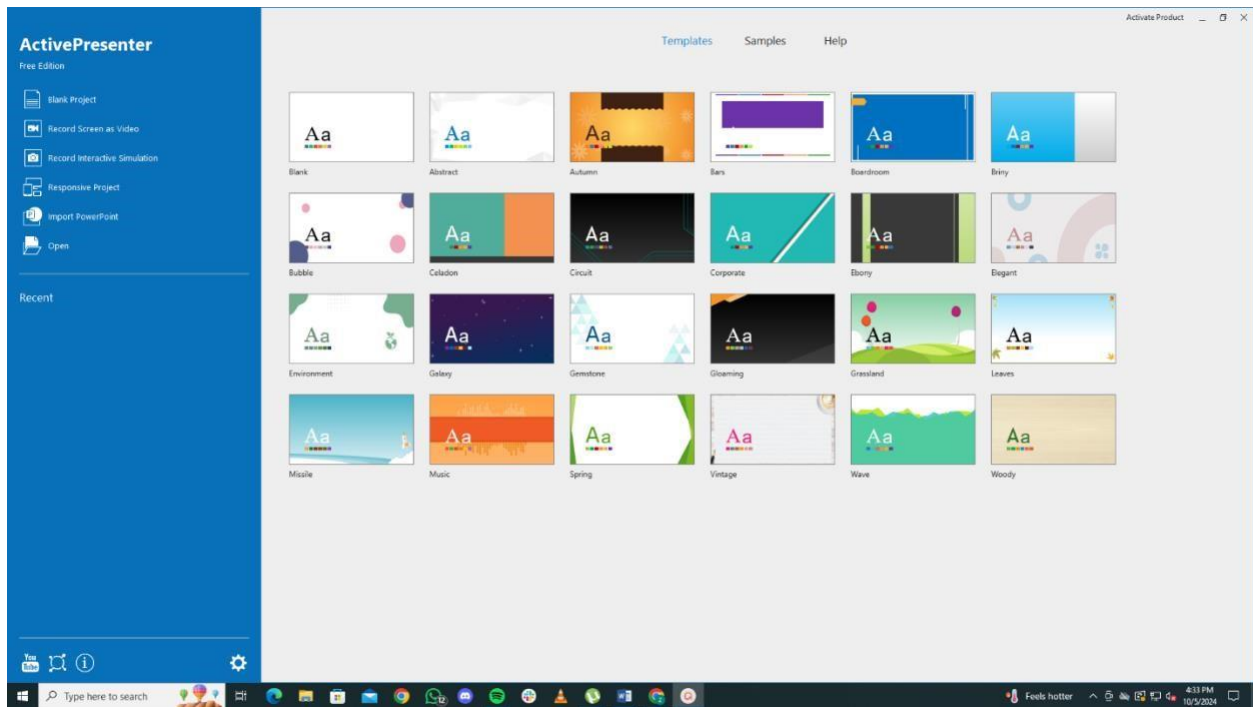


Figure 4: Active Presenter successfully working

## MACRO'S

- Click on view:

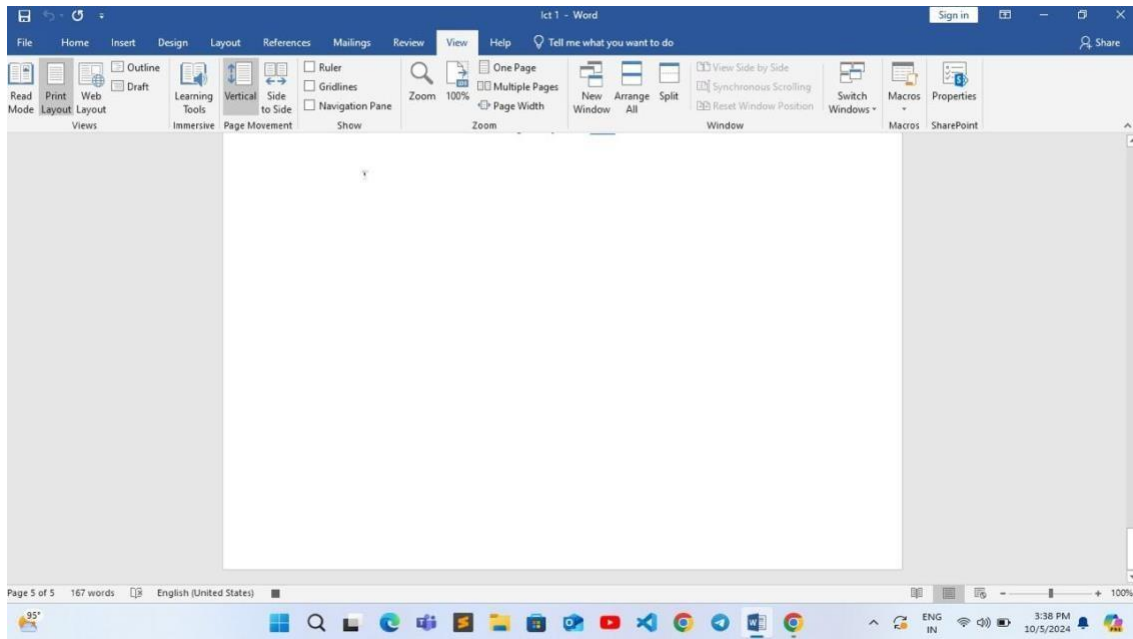


Figure 5: Open MS WORD then click on view to record a macro

## ○ MACRO RECORDING:

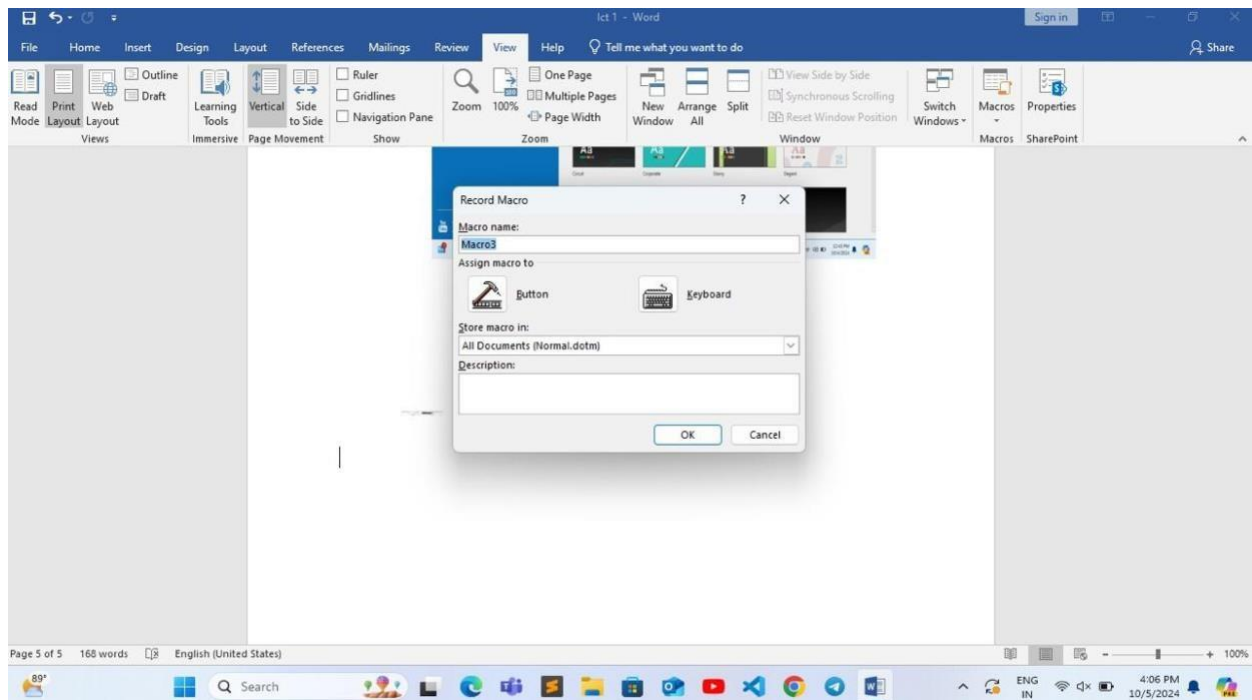


Figure 6: Start macro recording on view. Macro is used for the repetition of sentences. Click on button

## ○ Customize access taskbar:

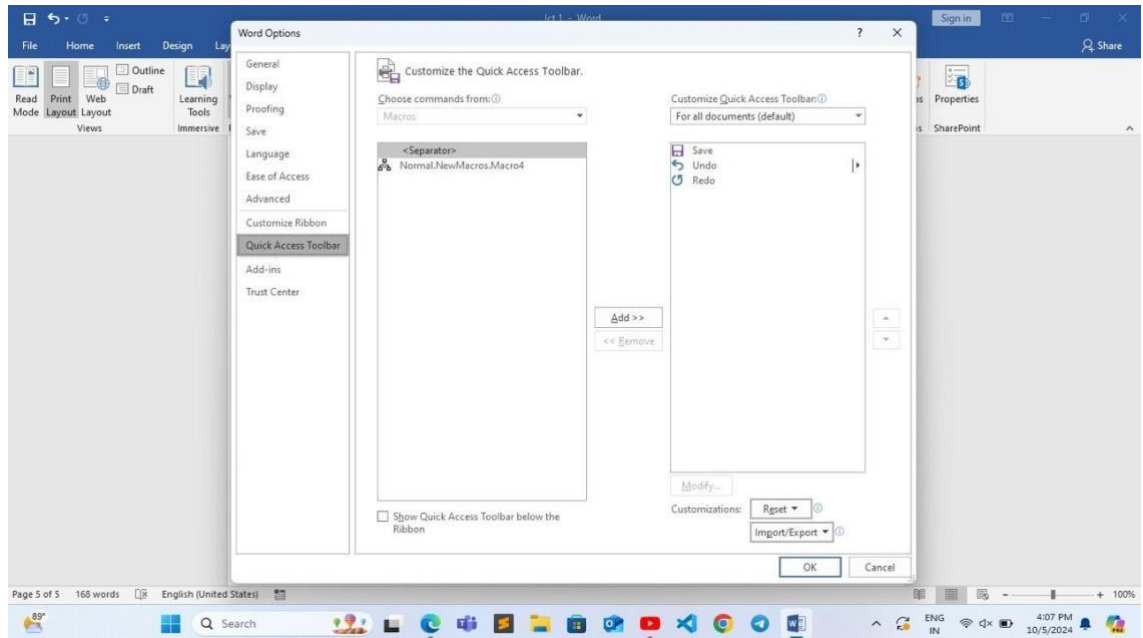


Figure 7: Select new macro and customize quick access taskbar and click on modify

## ○ Shortcut key:

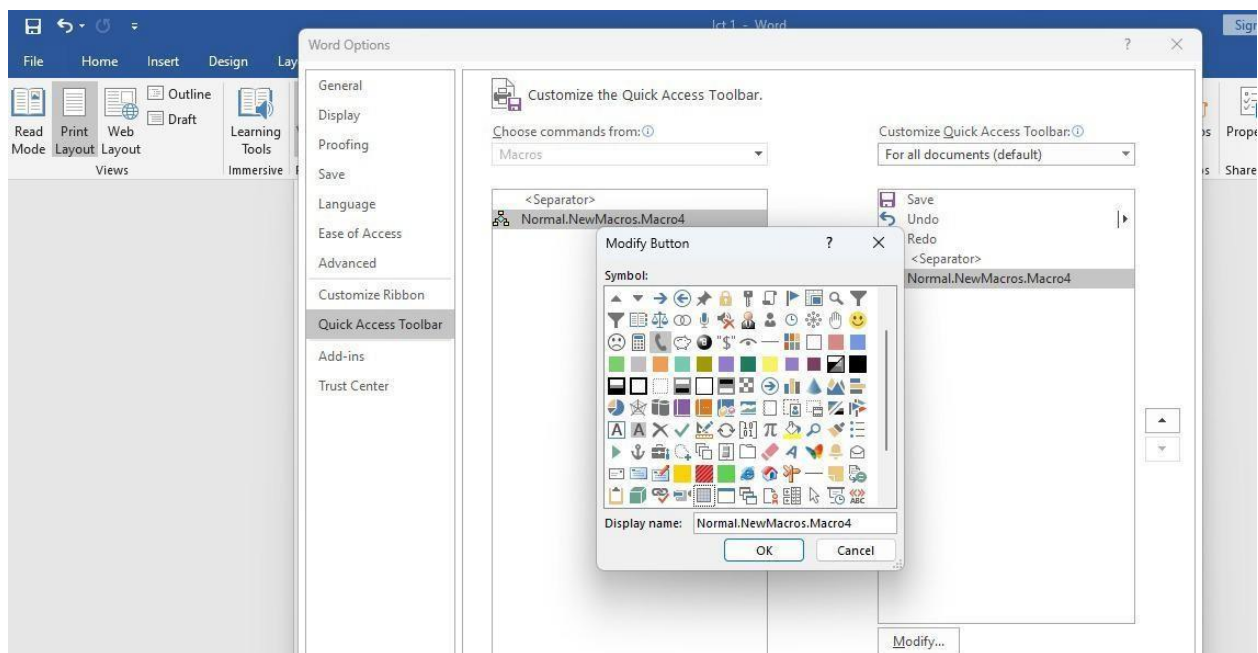


Figure 8: Select an emoji and make a shortcut key so that you can restore your sentences that you recorded earlier

## ○ Macro run:

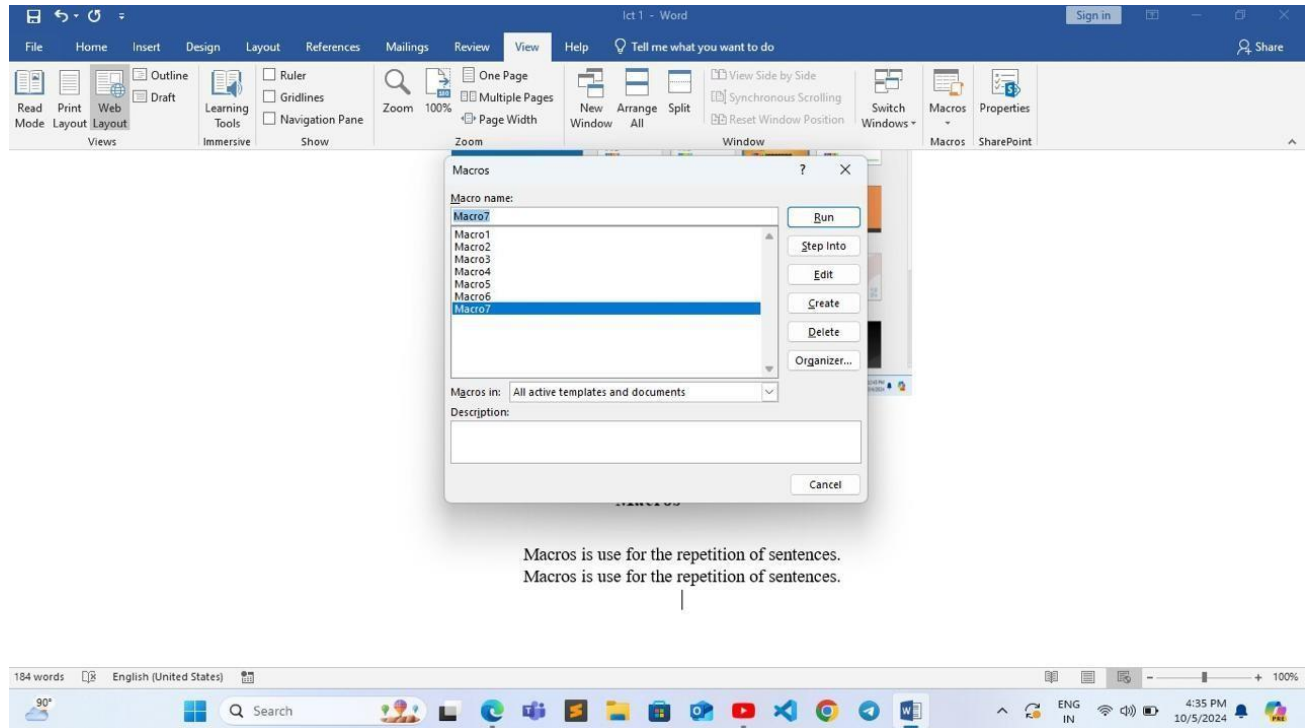


Figure 9: Now click on view macros and select the macros you want, then click on run macro.

## Example:

By following steps, my sentence repeats from macro in MS WORD

MY NAME IS SAJJAL

MY NAME IS SAJJAL

MY NAME IS SAJJAL

MY NAME IS SAJJAL

MY NAME IS SAJJAL

## ○ CPP COMPILER



```
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

C:\Users\muham>g++ --version
g++ (MinGW.org GCC-6.3.0-1) 6.3.0
Copyright (C) 2016 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

C:\Users\muham>gcc --version
gcc (MinGW.org GCC-6.3.0-1) 6.3.0
Copyright (C) 2016 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

C:\Users\muham>
```

Figure10 : Verify g++ and gcc

-----

**Lab task no 3:**

**Presentation on powerpoint:**



# Fundamentals of Computer Programming

This presentation will cover key concepts and essential practices for becoming an effective computer programmer. Learn how to craft algorithms, write clean code, and debug efficiently.

# From Algorithms to Executable Code

## Algorithm Design

A clear set of instructions for solving a problem. It defines the logical steps, but not the specific programming language.

## Code Implementation

Translating the algorithm into a programming language. Choosing the right language depends on the problem and its constraints.



# Best Practices for Effective Programming

1

## Readability

Writing code that is easy to understand. Use clear variable names, comments, and consistent formatting.

3

## Testing

Writing code to test your code. This ensures your program works as expected and helps identify bugs.

2

## Modularity

Breaking code into smaller, reusable units. This makes it easier to debug, maintain, and reuse.

# Best Practices

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### Modularity

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### Clear comment

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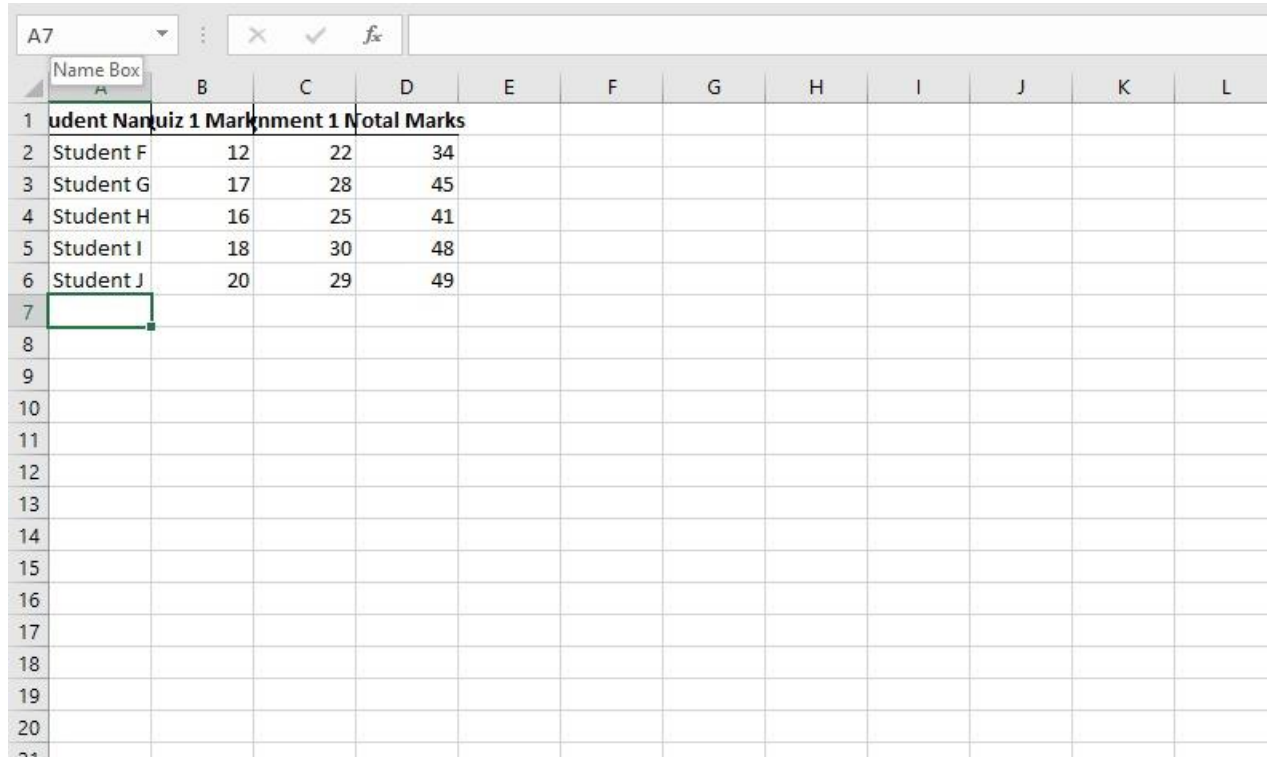
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## Lab task 4:



The screenshot shows an Excel spreadsheet with the following data:

	A	B	C	D	E	F	G	H	I	J	K	L
1	Student Name	Quiz 1 Mark	Assignment 1 Mark	Total Marks								
2	Student F	12	22	34								
3	Student G	17	28	45								
4	Student H	16	25	41								
5	Student I	18	30	48								
6	Student J	20	29	49								
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Figure 1 Calculations on ms excel

## Lab task 5:

### Task no 1 :

Code :

```

<!DOCTYPE html>
<head>
  <title>My Web Page</title>
</head>
<body>

  <!-- Main Title -->
  <h1>Welcome to My Personal Web Page</h1>

  <!-- Subtitle -->
  <h2>Discover My Interests and Passions</h2>
  <!-- Introduction Paragraph -->
  <p>Hello, I'm Sajjal, a person who loves to explore the world of
technology, creativity, and innovation. My passion lies in understanding how
things work, building new ideas, and finding unique ways to express myself.
Whether it's coding a new project, designing websites, or experimenting with
digital art, I'm constantly seeking new ways to challenge myself and grow in
these fields.</p>

  <!-- Unordered List of Hobbies -->
  <ul>
    <li>Building and coding software applications</li>
    <li>Experimenting with graphic design and digital art</li>
    <li>Playing video games and game development</li>
    <li>Listening to and composing music</li>
  </ul>

  <!-- Ordered List of Steps for a Process -->
  <ol>
    <li>Brainstorm and outline the concept or idea you want to work on.</li>
    <li>Research tools, resources, and skills needed to bring your idea to life.</li>
    <li>Start building the project, breaking it down into manageable
tasks.</li>
    <li>Test your creation, make revisions, and refine your work.</li>
    <li>Showcase your work to others, get feedback, and continue improving.</li>
  </ol>

</body>
</html>

```

**Personal info :**

# Welcome to My Personal Web Page

## Discover My Interests and Passions

Hello, I'm Sajjal, a person who loves to explore the world of technology, creativity, and innovation. My passion lies in understanding how things work, building new ideas, and finding unique ways to express myself. Whether it's coding a new project, designing websites, or experimenting with digital art, I'm constantly seeking new ways to challenge myself and grow in these fields.

- Building and coding software applications
- Experimenting with graphic design and digital art
- Playing video games and game development
- Listening to and composing music

1. Brainstorm and outline the concept or idea you want to work on.
2. Research tools, resources, and skills needed to bring your idea to life.
3. Start building the project, breaking it down into manageable tasks.
4. Test your creation, make revisions, and refine your work.
5. Showcase your work to others, get feedback, and continue improving.

Figure 2 Personal info

## Task no 2:

```
<!DOCTYPE html>
<head>
  <title>My Web Page</title>
</head>
<body>

  <!-- Profile Picture -->
  
  <!-- Main Title -->
  <h1>My Personal Web Page</h1>

  <!-- Subtitle -->
  <h2>Learn More About Me</h2>

  <!-- Table with Personal Information -->
  <table>
    <thead>
      <tr>
        <th>Category</th>
        <th>Information</th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td>Name</td>
        <td>Sajjal Fayyaz</td>
      </tr>
      <tr>
```

```
        <td>Age</td>
        <td>18</td>
    </tr>
    <tr>
        <td>Email</td>
        <td>Sajjal-9@gmail.com</td>
    </tr>
</tbody>
</table>

<!-- Form -->
<h3>Contact Me</h3>
<form action="#" method="post">
    <div>
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required>
    </div>
    <div>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>
    </div>
    <div>
        <label for="password">Password:</label>
        <input type="password" id="password" name="password" required>
    </div>
    <div>
        <input type="submit" value="Submit">
    </div>
</form>

</body>
</html>
```

**My webpage :**



# My Personal Web Page

## Learn More About Me

Category	Information
Name	Sajjal Fayyaz
Age	18
Email	Sajjal-9@gmail.com

## Contact Me

Name:

Email:

Password:

Figure 3 Personal webpage

## Task no 3 :

```
<!DOCTYPE html>
<head>
  <title>My Creative Portfolio</title>
</head>
<body>

  <!-- Header -->
  <header>
    <h1>Welcome to My Creative Portfolio</h1>
    <p>Hello! I'm Sajjal, a creative professional specializing in
Photography.</p>
  </header>

  <!-- Introduction Section -->
  <section>
    <h2>About Me</h2>
    <p>I am passionate about photography. With experience in capturing
landscapes, portraits, and events, I aim to tell powerful stories through my
images. I believe in continuous learning and always strive to improve my skills
```

by exploring new techniques and experimenting with different styles of photography.</p> </section>

```

<!-- Portfolio Section -->
<section>
  <h2>My Portfolio</h2>
  <p>Below are some of my key works:</p>
  <ul>
    <li>
      <strong>Landscape Photography 1:</strong> A stunning collection
of nature and cityscape photography, focusing on light and perspective.
    </li>
    <li>
      <strong>Portrait Photography 2:</strong> A series of portrait
sessions, capturing the emotion and personality of my subjects in various
settings.
    </li>
    <li>
      <strong>Event Photography 3:</strong> Coverage of weddings and
social events, capturing candid moments and details that tell a story.
    </li>
  </ul>
</section>

<!-- Creative Process Section -->
<section>
  <h2>My Creative Process</h2>
  <p>Here is an overview of how I approach my photography projects:</p>
<ol>
  <li>Research and gather inspiration for the shoot.</li>
  <li>Scout locations and plan compositions.</li>
  <li>Set up equipment and work with lighting for the perfect shot.</li>
  <li>Capture images and review to ensure quality and creativity.</li>
  <li>Edit and finalize photos, enhancing colors and details as needed.</li>
  <li>Deliver the final images to clients or showcase them
in exhibitions.</li>
</ol>
</section>

<!-- Contact Section -->
<section>
  <h2>Contact Me</h2>
  <p>If you'd like to collaborate or learn more about my work, feel free to
reach out:</p>
  <ul>

```

```
<li>Email: Sajjal@gmail.com</li>
<li>Phone: 03456789345</li>
</ul>
</section>

</body> </html>
```

## Portfolio:

### Welcome to My Creative Portfolio

Hello! I'm Sajjal, a creative professional specializing in Photography.

#### About Me

I am passionate about photography. With experience in capturing landscapes, portraits, and events, I aim to tell powerful stories through my images. I believe in continuous learning and always strive to improve my skills by exploring new techniques and experimenting with different styles of photography.

#### My Portfolio

Below are some of my key works:

- **Landscape Photography 1:** A stunning collection of nature and cityscape photography, focusing on light and perspective.
- **Portrait Photography 2:** A series of portrait sessions, capturing the emotion and personality of my subjects in various settings.
- **Event Photography 3:** Coverage of weddings and social events, capturing candid moments and details that tell a story.

#### My Creative Process

Here is an overview of how I approach my photography projects:

1. Research and gather inspiration for the shoot.
2. Scout locations and plan compositions.
3. Set up equipment and work with lighting for the perfect shot.
4. Capture images and review to ensure quality and creativity.
5. Edit and finalize photos, enhancing colors and details as needed.
6. Deliver the final images to clients or showcase them in exhibitions.

#### Contact Me

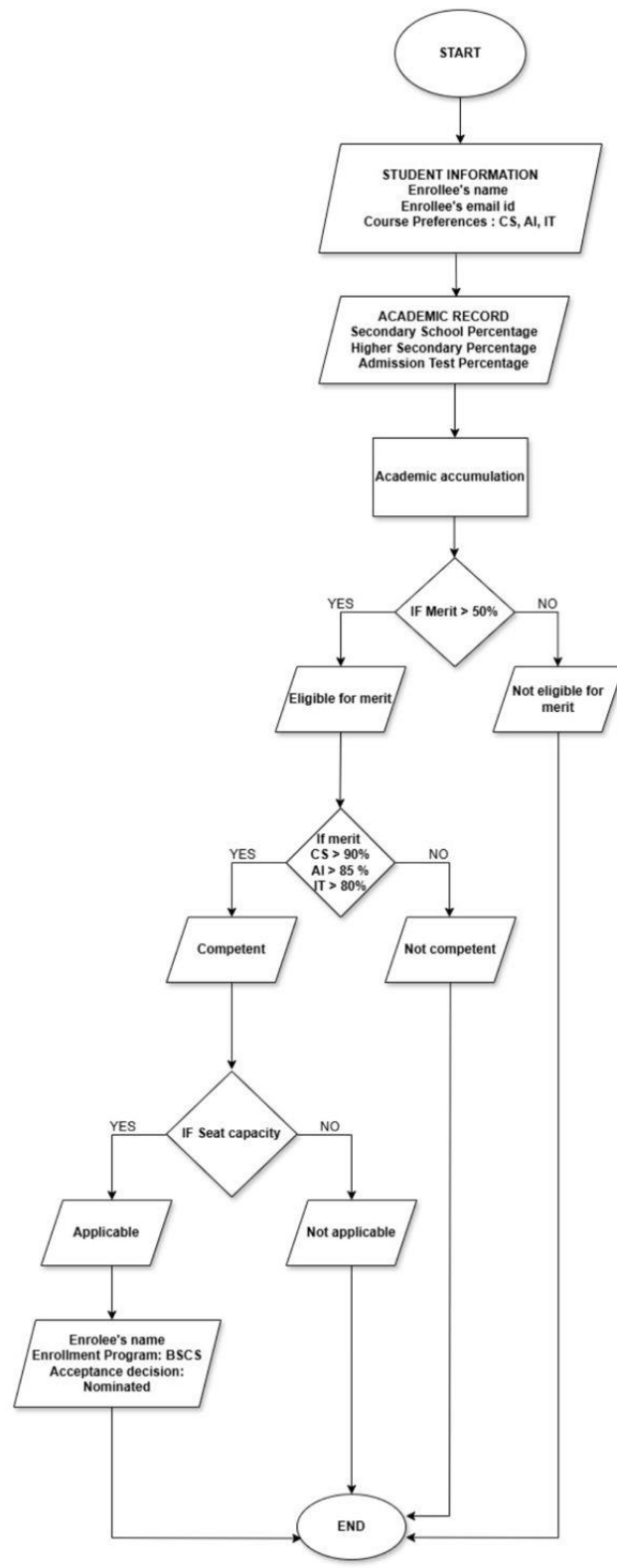
## Contact Me

If you'd like to collaborate or learn more about my work, feel free to reach out:

- Email: Sajjal@gmail.com
- Phone: 03456789345

Figure 4 Portfolio

## Lab task no 6:



*Figure 5 Flowchart*