Objective

The goal of this code is to **automatically evaluate resumes** submitted by candidates and compare them with the job description to see how well the candidates match the job requirements. The final output will show a **score** for each section of the resume (like Education, Experience, and Skills), indicating how closely the resume matches the job description.

How it Works

1. **Reading the Resume (in PDF format):**
   - The tool can read resumes that are saved as **PDF files**.
   - It goes through each page of the resume and extracts the text (like the candidate's qualifications, work history, skills, etc.) to be used for comparison with the job description.
2. **Breaking Down the Resume:**
   - Resumes typically have different sections, such as "Education," "Work Experience," "Skills," and so on.
   - The code looks for specific keywords (like "Education" or "Experience") to **identify and separate these sections** in the resume.
   - For example, if the resume mentions "Education," the tool will take everything that follows under this heading and treat it as the Education section.
3. **Job Description Breakdown:**
   - The job description provided by the company is also divided into sections like "Required Education," "Work Experience," and "Skills Needed."
   - Each part of the job description outlines what the company is looking for in an ideal candidate, such as specific degrees, years of experience, or particular skills (e.g., Python programming).
4. **Comparing the Resume to the Job Description:**
   - Once the resume and the job description are divided into sections (Education, Experience, Skills), the tool compares each section of the resume with the matching section from the job description.
   - For example:
     - The **Education** section of the resume will be compared to the **Education** requirements from the job description.
     - The **Experience** section of the resume will be compared to the **Experience** section in the job description.
     - This comparison happens **automatically** based on the content of both documents.
5. **Scoring the Match:**
   - The tool calculates a **similarity score** for each section. This score tells how well the candidate's resume matches that specific part of the job description:
     - A score of **1.0** means a perfect match (the resume and job description are very similar in that section).

- A lower score means the resume is less similar to what the company is looking for in that section.
    - For example, if the job requires a "Bachelor's degree in Computer Science," but the resume lists a "Bachelor's degree in Marketing," the **Education** section will likely get a lower score.
6. **Results:**
    - The tool outputs a **similarity score for each section** (Education, Experience, Skills, etc.).
    - These scores give an idea of how well the candidate meets the job requirements based on the information in their resume.

Why This is Useful:

- **Automates Resume Review:** Instead of manually reviewing every resume, this tool **automatically compares each candidate's qualifications** to the job requirements.
- **Ranks Candidates:** Companies can use the scores to **rank candidates** and identify the best matches for the job, saving time and effort.
- **Section-Based Analysis:** It looks at individual sections (Education, Skills, Experience) instead of treating the resume as a single block of text, which gives a more **precise comparison**.
- **Customizable:** The tool can be adapted to different job descriptions and types of resumes, so it can be used for a variety of roles and industries.

Summary:

This tool **reads resumes**, **splits them into key sections** (like Education and Experience), and **compares** these sections with the job description. It then provides a score for each section, showing how closely the candidate's qualifications match what the company is looking for. This makes it easier for companies to quickly find the best candidates for a job.