Requirements & System Setup

Assignment Answer Sheet

1. List all the tools you might use as a web developer

Ans:- Text Editors/IDEs: For writing and editing code (e.g., VS Code, Sublime Text).

1. **Version Control: For tracking code changes and collaboration (e.g., Git, GitHub).**
2. **Browsers: For testing and debugging (e.g., Chrome, Firefox).**
3. **Browser DevTools: For inspecting and debugging web pages directly in the browser.**
4. **Package Managers: For managing libraries and**

dependencies (e.g., npm, Yarn).

5. **Task Runners/Build Tools: For automating tasks like minification and compilation (e.g., Gulp, Webpack).**
6. **Frameworks/Libraries: For simplifying development (e.g., React, Angular, Vue.js).**
7. **Preprocessors: For extending CSS and JS capabilities (e.g., Sass, TypeScript).**
8. **APIs: For integrating external services (e.g., REST, GraphQL).**
9. **Design Tools: For creating and editing visual elements (e.g., Figma, Adobe XD).**
10. **Testing Tools: For ensuring code quality (e.g., Jest, Mocha).**
11. **Deployment Tools: For publishing websites (e.g., Netlify, Heroku).**

2.What are some of the features of PW Skills Online Lab? Explain how they are useful.

Ans:- PW Skills Online Lab Features:

1. **Interactive Coding Environment: Write and test code directly in the browser—convenient for learning without software setup.**

2. **Real-Time Collaboration: Work with peers on coding projects—enhances teamwork and peer learning.**
3. **Auto-Grading and Feedback: Instant feedback on assignments—helps students learn from mistakes quickly.**
4. **Pre-Built Templates: Ready-to-use coding templates—saves time and aids focused learning.**
5. **Progress Tracking: Monitor learning progress—keeps students motivated and on track.**
6. **Cross-Platform Access: Accessible from any device—learn and code from anywhere.**
7. **Community Support: Forums for questions and knowledge-sharing—fosters a supportive learning community.**