**DAILY ASSESSMENT REPORT**

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| **Date:** | **09 June 2020** | **Name:** | **Persis P** |
| **Course:** | **KiCad like a pro 2nd edition** | **USN:** | **4AL17EC069** |
| **Topic:** | * **Introduction** * **Getting started with PCB Design** | **Semester & Section:** | **6th sem & B sec** |
| **GitHub**  **Repository:** | **Persis-P** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session**        KiCad  is a [free software](https://en.wikipedia.org/wiki/Free_software) suite for [electronic design automation](https://en.wikipedia.org/wiki/Electronic_design_automation) (EDA). It facilitates the design of [schematics](https://en.wikipedia.org/wiki/Circuit_diagram) for [electronic circuits](https://en.wikipedia.org/wiki/Electronic_circuit) and their conversion to [PCB](https://en.wikipedia.org/wiki/Printed_circuit_board) designs. It features an integrated environment for [schematic capture](https://en.wikipedia.org/wiki/Schematic_capture) and PCB layout design.  Tools exist within the package to create a [bill of materials](https://en.wikipedia.org/wiki/Bill_of_materials), artwork, [Gerber](https://en.wikipedia.org/wiki/Gerber_format) files, and 3D views of the PCB and its components.  The KiCad suite has five main parts:   * KiCad – the project manager. * Eeschema – the schematic capture editor. * Pcbnew – the PCB layout program. It also has a 3D view. * GerbView – the [Gerber](https://en.wikipedia.org/wiki/Gerber_format) viewer. * Bitmap2Component – tool to convert images to footprints for PCB artwork.   This tutorial is split into the following sections:   * [Creating a Project](https://forum.kicad.info/t/tutorial-introduction-to-pcb-design-with-kicad-version-5-1/20600/2) * [Designing the schematic](https://forum.kicad.info/t/tutorial-introduction-to-pcb-design-with-kicad-version-5-1/20600/3) (Schematic using symbols and Wires) * [Lay out the board](https://forum.kicad.info/t/tutorial-introduction-to-pcb-design-with-kicad-version-5-1/20600/4) (Visibility options, Footprints, Traces and board outline) * [Improve the schematic](https://forum.kicad.info/t/tutorial-introduction-to-pcb-design-with-kicad-version-5-1/20600/5) (Power symbols, labels and electrical rule check) * [Improve the Layout](https://forum.kicad.info/t/tutorial-introduction-to-pcb-design-with-kicad-version-5-1/20600/6) (Updating from schematic changes, copper zones, vias, net selection and exchanging units) * [Get ready for manufacturing](https://forum.kicad.info/t/tutorial-introduction-to-pcb-design-with-kicad-version-5-1/20600/7) (Design rules and gerber export) * What is needed for a PCB to be produced?   A Printed Circuit Board is defined by a number of layers. These layers include a defined number of copper layers, solder mask, silkscreen and board edge which are required by the board house to manufacture your board. Additional layers like the fabrication and courtyard layers are there to document your board or help with ensuring manufacturing constrains are met. |

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| **Date:** | **09 June 2020** | **Name:** | **Persis P** |
| **Course:** | **Beginner PHP and MySQL Tutorial** | **USN:** | **4AL17EC069** |
| **Topic:** | * **Intro to beginners PHP** * **Getting started** * **Our first look at my SQL and PHP** | **Semester & Section:** | **6th sem & B sec** |

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| **AFTERNOON SESSION DETAILS**  **Image of session**    **What is MySQL?**  MySQL is an open-source relational database management system (RDBMS). It is the most popular database system used with PHP. MySQL is developed, distributed, and supported by Oracle Corporation.   * The data in a MySQL database are stored in tables which consists of columns and rows. * MySQL is a database system that runs on a server. * MySQL is ideal for both small and large applications. * MySQL is very fast, reliable, and easy to use database system. It uses standard SQL * MySQL compiles on a number of platforms.   **Connecting to MySQL database using PHP**  There are 3 ways in which we can connect to MySQl from PHP as listed above and described below:   1. **Using MySQLi object-oriented procedure**: We can use the MySQLi object-oriented procedure to establish a connection to MySQL database from a PHP script. 2. **Using MySQLi procedural procedure** : There is also a procedural approach of MySQLi to establish a connection to MySQL database from a PHP script.   In MySQLi procedural approach instead of creating an instance we can use the mysqli\_connect() function available in PHP to establish a connection. This function takes the information as arguments such as host, username , password , database name etc. This function returns MySQL link identifier on successful connecction or FALSE when failed to establish a connection.  **3.Using PDO procedure**: PDO stands for PHP Data Objects. That is, in this method we connect to the database using data objects in PHP |