

Daily Assessment Journal

Date: 09/06/2020

Name: Iyoh & Donut

Vsn: 4ALITEC037

Course: PCB design

Topic: introduction, netlist & footprint

GitHub

Repository: Iyoh-course

forenoon session details

Report

Day 1.

* Start a new project: (tool → kicad)

file → new → project

after that give the name to the file

create a folder for kicad to save the work

- eschema → schematic editor

press k when window pops up.

- file → save → whole schematic project

- page setting → select the paper format

Revision → 0.1

give the title name

set company name

set comments

- place & component → click on the select window will pop up we will get the library of components

select the component required & place it on the sheet

↑ key → rotates

x Netlist & footprint association & placing PCB

- After developing the ckt

click on Run (v PCB to associate components &

footprints.

- window will popup → ok

- select the types of the different components

- netlist → read current netlist.

what is kicad?

- kicad is a free software suite for electronic design automation.
- it facilitates the design of schematics for electronic cks & their conversion to pcb designs.
- kicad was originally developed by Jean-pierre charras
- it features an integrated environment for schematic capture & pcb layout design.

Setting up a project

- `***pro***` main project file to keep track of the file structure
- `***cmp***` defines which footprints go with which schematic components
- `***kicad_pcb***` the pcb layout
- `***sch***` the schematic.

Editing the schematic

- a - to add components
- c - copy a component when the cursor is over another component
- w - to wire components
- v - edit component value
- Esc - Escape mode or whatever command in progress & return to normal pointer mode
- `ctrl+z` undo. use liberally to undo any mistakes
- `ctrl+s` → to save. make sure to save often.

Date: 09/06/2020

Name: Jyoti S. Dumbre
Uen: 4ALITEC039

Course: MySQL

Topic: outputting & processing data

- Dealing with variables

- inserting & using database data

Github repository: jyoti-courses

Afternoon session details

Report

MySQL Loop

The loop-label before the loop statement for using with the iterate & leave statements. if the value of x is greater than 10, the loop is terminated because of the leave statement. if the value of x is an odd number, the iterate ignores everything below it & starts a new loop iteration.

DELIMITER \$\$

CREATE PROCEDURE Loop Demo()

BEGIN

DECLARE x INT;

DECLARE str VARCHAR(255);

SET x=1;

SET str="";

loop-label: LOOP

IF x > 10 THEN

LEAVE loop-label;

END IF

SET x = x + 1;

IF (x mod 2) THEN

ITERATE loop-label;

ELSE SET str = CONCAT(str, x, ',');

END IF;

```
END LOOP;  
SELECT STR;
```

```
END $$
```

Dealing with variables

To create a user-defined variable, we use the format `@variable_name`, where the `variable_name` consists of alphanumeric characters. The max length of the user-defined variable is 64 characters.

There are two ways to assign a value to a user-defined variable. The first way is to use the SET statement as follows.

```
SET @variable_name = value;
```

Inserting & using database data

The INSERT statement allows you to insert one or more rows into a table. The following illustrates the syntax of INSERT statement.

```
INSERT INTO table (c1, c2, ...)
```

```
VALUES (v1, v2, ...);
```

In this syntax

First, specify the table name & a list of comma-separated columns inside parentheses after the INSERT INTO clause.

Then, put a comma-separated list of values of the corresponding columns inside the parentheses following the values keyword.

MySQL INSERT examples

```
CREATE TABLE IF NOT EXISTS tasks(
```

```
Task_id INT AUTO-INCREMENT,
```

```
Title VARCHAR(255) NOT NULL,
```

```
start_date DATE,
```

```
due_date DATE,
```


priority TINYINT NOT NULL DEFAULT 3,
description TEXT,
PRIMARY KEY(task_id)
);