Experiment Number 7

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Branch ::	CSE - IoT	Sec/Grp ::	1/A
Semester ::	5^{th}	Date ::	20^{th} Nov, 2021
Subject ::	WSN Lab	CODE ::	CSD-331

1. Aim :

Introduction to Raspberry Pi 3 and installation of Proteus 8.9.

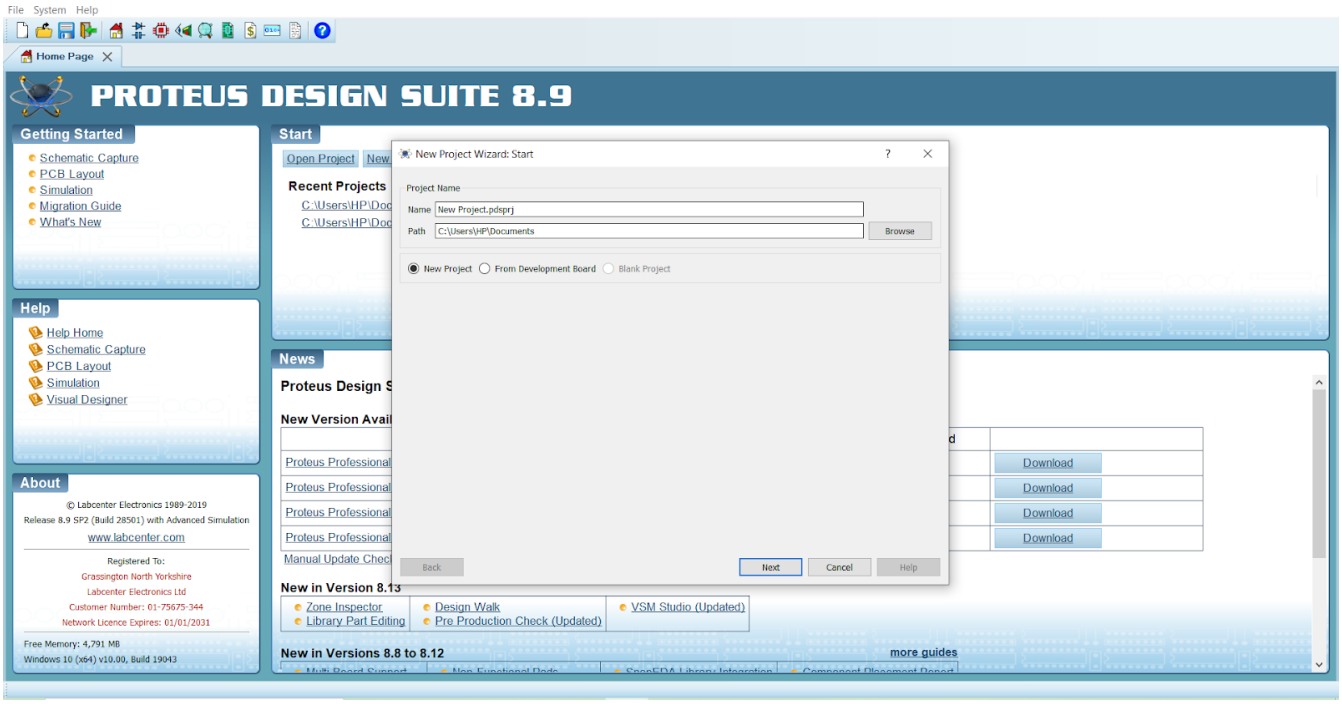
2. requirements :

1. Proteus 8.9

3. Theory :

Raspberry Pi is the name of a series of single-board computers made by the Raspberry Pi Foundation, a UK charity that aims to educate people in computing and create easier access to computing education. The Raspberry Pi launched in 2012, and there have been several iterations and variations released since then. The original Pi had a single-core 700MHz CPU and just 256MB RAM, and the latest model has a quad-core CPU clocking in at over 1.5GHz, and 4GB RAM. The price point for Raspberry Pi has always been under $100(usually around 35$ USD), most notably the Pi Zero, which costs just $5. All over the world, people use the Raspberry Pi to learn programming skills, build hardware projects, do home automation, implement Kubernetes clusters and Edge computing, and even use them in industrial applications. The Raspberry Pi is a very cheap computer that runs Linux, but it also provides a set of GPIO (general purpose input/output) pins, allowing you to control electronic components for physical computing and explore the Internet of Things (IoT).

4. Steps:


File System Help
Home Page
PROTEUS DESIGN SUITE 8.9
Getting Started
Schematic Capture
PCB Layout
Simulation
Migration Guide
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Windows 10 (x64) v10.00, Build 19043
Start
Open Project
New
Recent Projects
C:\Users\HP\Doc
C:\Users\HP\Doc
New Project Wizard: Start
Project Name
Name New Project.pdsprj
Path C:\Users\HP\Documents
Browse
New Project
From Development Board
Blank Project
Back
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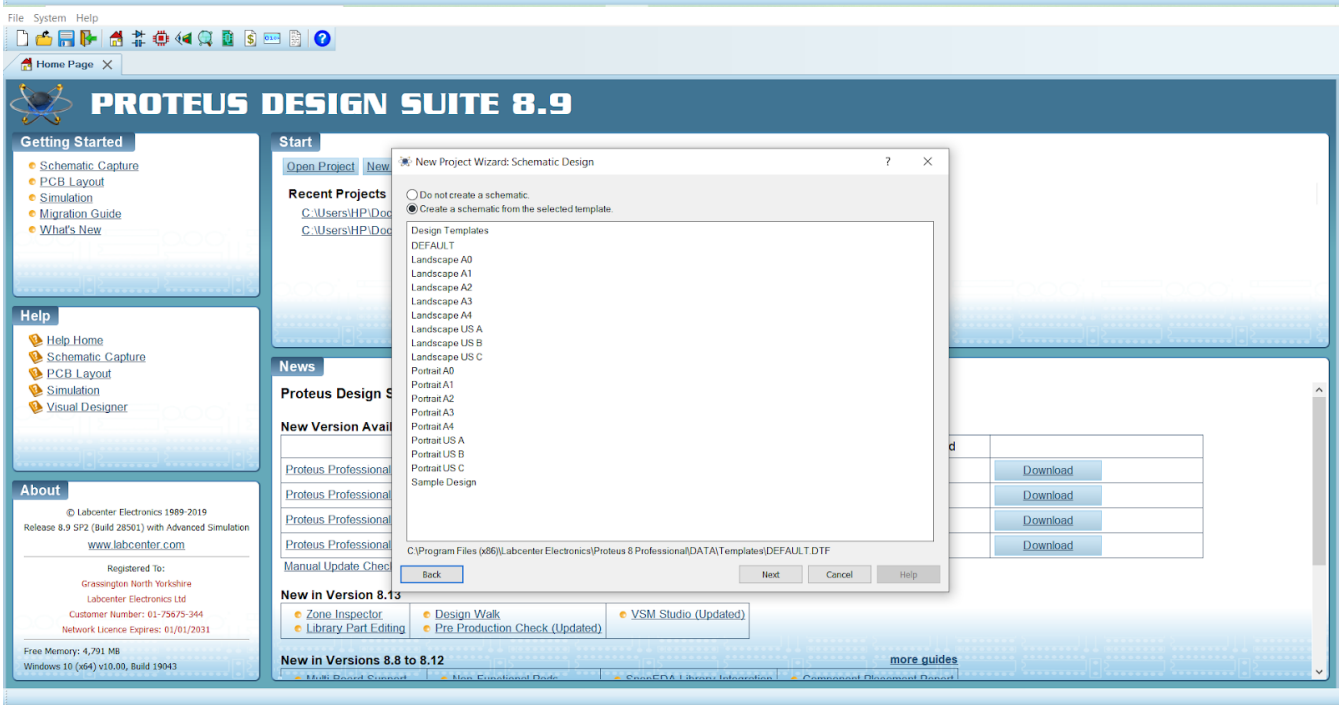
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Start
Open Project
New
Recent Projects
C:\Users\HP\Doc
C:\Users\HP\Doc
New Project Wizard: Schematic Design
Do not create a schematic.
Create a schematic from the selected template.
Design Templates
DEFAULT
Landscape A0
Landscape A1
Landscape A2
Landscape A3
Landscape A4
Landscape US A
Landscape US B
Landscape US C
Portrait A0
Portrait A1
Portrait A2
Portrait A3
Portrait A4
Portrait US A
Portrait US B
Portrait US C
Sample Design
C:\Program Files (x86)\Labcenter Electronics\Proteus 8 Professional\DATA\Templates\DEFAULT.DTF
Back
Next
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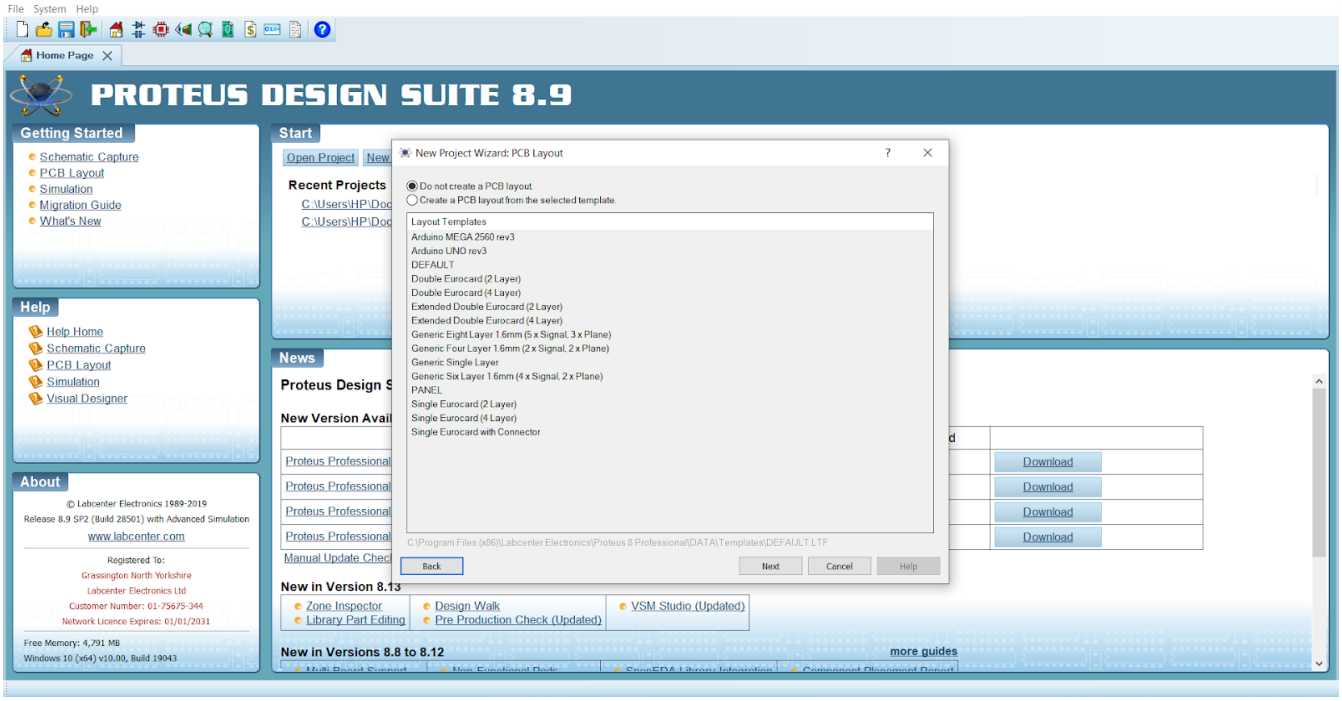
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Start
Open Project
Recent Projects
C:\Users\HP\Doc
C:\Users\HP\Doc
New Project Wizard: PCB Layout
Do not create a PCB layout.
Create a PCB layout from the selected template.
Layout Templates
Arduino MEGA 2560 rev3
Arduino UNO rev3
DEFAULT
Double Eurocard (2 Layer)
Double Eurocard (4 Layer)
Extended Double Eurocard (2 Layer)
Extended Double Eurocard (4 Layer)
Generic Eight Layer 1.6mm (5 x Signal, 3 x Plane)
Generic Four Layer 1.6mm (2 x Signal, 2 x Plane)
Generic Single Layer
Generic Six Layer 1.6mm (4 x Signal, 2 x Plane)
PANEL
Single Eurocard (2 Layer)
Single Eurocard (4 Layer)
Single Eurocard with Connector
C:\Program Files (x86)\Labcenter Electronics\Proteus 8 Professional\DATA\Templates\DEFAULT.LTF
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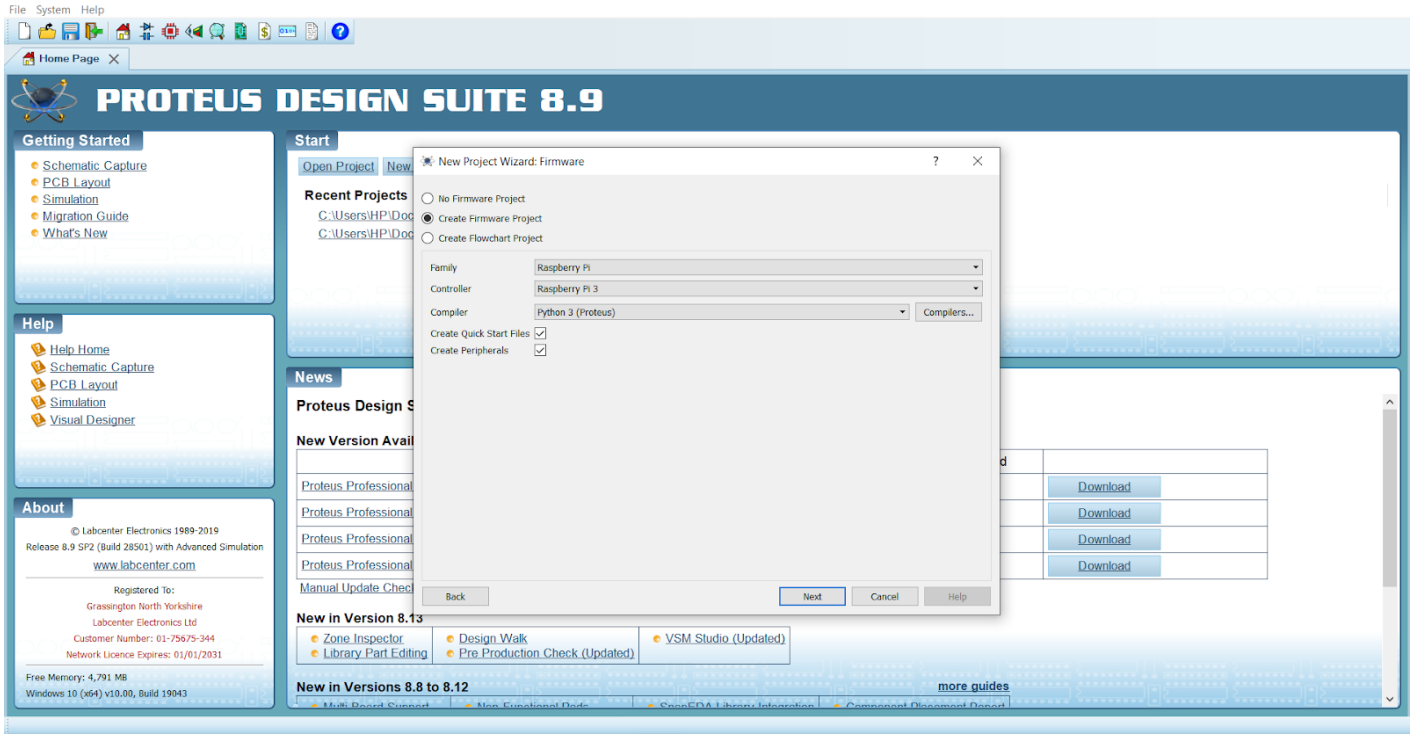
5. Observations :



Learning Outcomes :

- Proteus
- Raspberry Pi

S. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			