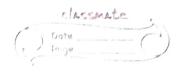
Devanshu Surana PC-23, Batch CI 1032210755 MAIOT Lab Assignment 1 Problem Statement: Study of 10T architecture, development platforms and various ARM soc's such as Raspberry Pil Espa 266 boards [. Beagle board Arduino Uno etc. To perform as installations. used to build lot devices Objectives: 1. To understand 10T development boards such as Raspberry Pi, Archino and their Operating systems. 2. To prepare the development boards ready for experiments. Theory: 1. Draw board layout diagram of Raspberry Pi or Ardvino and state various units on the board.

DSI Display Port — Due board wifi and BT -Dual band wifi and BT 2SI Camera _____ POE HAT HEADE 60n trolles -> Raspberry Pi 2 x USB 1.0 2 x USB 3.0

classmat Raspberry Pi is series of small single board computer developed by in the United Kingdom by the Raspberry Pi Foundation it is leaned towards the promotion of teaching basic computer science in schools and is developing countries. It is typically used by computer and electronic hobbyists , due to its adoption of the HDMI and USB standards. 2) Draw Pinout diagram of either Raspherry Pi or Ardwins! development board - 12 C - dock Ground
Digital Dis SPI - SCLE
Mister DI2 SPI - M130 Digital Dio SPI -> 14031 Groundard-Digita 08 Analog-UART-ID DART-OUT ARDVINO UNO Arduing is an open source hardware and software company project and user community that designs and manufactures single board microcontrollers and microcontroller kits for building digital devices.



3) Difference.

Arduino

1) The control unit of the Arduino is from the Atmega family

2) Arduino works on the basis of a microcontroller.
3) Arduino boards have a very simple structure of software and hardware

4) Ardwino has an 8-bit Architecture.

5) It has a higher wast efficiency because its comparatively cheaper.

Raspberry Pi Landous an since

1) The control unit of the Raspberry Pi is from the ARM family and and it mideres the given the first

2) Works on the basis of microprocessor.

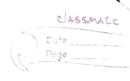
3) Raspherry Pi bourds have a comparatively complex structure software and hardware architecture

4) Raspberry Pi has a 64-bit architecture.

5) It has a lower-cost efficiency because its comparatively cheaper.

Conclusion:

Thus, we have studied the 10T structure development Platforms and various ARM socs such as Raspberry Pi and Arduino Uno etc. and also understood lot development boards such as Raspberry Pi and Ardwino and their Os.



FAQ's Il state briefly lot platforms available other than Raspberry -> 1) Particle: Offers a range of development tits designed to connect to the internet over wifi cellular. 2) Add fruit: offers one of the best online spaces to learn about DIY electronic hacking. 3) Sparkfun: A large retail store that sells everything from development fits, breakout boards to sensors. 4) Espress if: Espressif develops wi-fi and Bluetoth lowpower 10T hardware solutions. 2) List important companies working in this domain. → 1] Samara c) 1BM 2) Vates 7] Bosch 3) Oxagile 4) Verizon 5) Hg software Industrial 101 company. 3) List and state applications of 10T. -> 17 Creating better enterprises solution 2] Integrating smarter homes. 3] Building smarter cities 4] Upgrading supply chain management.
5] Installing smart grids.
6] Integrating connected factories.

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4 <u>]</u>	List your favourite websites in the field of 10T learning. www.techtarget.com [iotagenda]
	www. harkster.io/projects/tags/internet of things www. blog.bosch-digital.com
	https://theinternet of things.eu/ist council-news
<i>5</i>]	Name only 2 books which are popular for lot. "The Internet of Things" by samuel Greengard "Getting started with Internet of things' by uno phister.
	" Getting started with Internet of things by uno pfister.
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	Microsoft Azure lo T
	Google 10T
	IBM watson lot Ciso lot, Cloud Connect
	Osacle lot Intelligent Applications.
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