Name in Ujjwal Lade Roll no 1 06 class'. TE Divib

Aim! Study of Rasberry-Pie. beagle board And wind and other micro-controller (History and elevation

Theory in Study of Rasberry Pies The Rosberry-Piez is a Series of small single Doord computers developed in the United Kingtone by the Rosberry pi-foundation to promote the teaching of basic computer science in schools and in developing compries. The original model become for more popular than anticipated selling outside of its targets market for uses such as robotics Over Smillion Royberry Pis have been sold before february 20150 A Rasherry Pi zero with smaller Size and reduced input (output & general purpose Flo (opto) capabilities, Rasberry-Pi3 model is was released in Feb 2016 and has on-board WIFF Bluetouth & USB boot capabilities on 28 feb 2017 Rosberry A'seno was fainched with wifi & Blotath Processor speed ranges from 700 NH2 to 1.2 GHz For the Pi3 on board memory ranges from 256 OB to 16B RAM SD cords are used to stoore the OSS program memory in

either SDHC or relianoprococcismic sizes Board have 4 WB poots video of HONI and composite video are supported with a standard somm phone jack for audio of lower level olp is provided by a number of lepo pins which supports common protocols like ly the 13 model have on 8P8c ethernel por and Pi3 & Pinero whave on board wife 802. Un and blue tooth.

History Had Eclevation:

1 In 2006 early concepts of the Rayberry Pi were based on the Atmel At mega 644 microcontrolable. Its schemations and PCB ayout gre publing available. The computer is inspired by Acom's BBC Micro of 1981. The model A, model B, model B + P names are reference to the original models of the British Educational BBC Micro computer developed by Acorns computers. The first APN prototype ression of the computer was monted in a package the same sine as a USB memory stick. It had a USB Port on one end & on HONI port on the other end.

ressions priced at is \$298 \$35 on 26 Novem

Study of Beagle.

The Beagle board is a low-Power open

Source Single-board computer produced by

Texas Instrument in association with Digi + Key and Netwerk element 14. The Beagle board was also designed with open source S w development in mind and a way of demarkating the Texas Instruments on A System on a chip. It is also sold to Public under the crative common share alike license The board was designed using codence on CAD for Schematics of maerice Allergo for PCB monifacturing no simulation S was wed:

Study of Arduino!

The Arduino project Started at the Interaction Design Institute (IpII) in Tyre a Italy At that time that students used a BASIC Stamp microconholber at a cost of \$100 a considerable expense for many states & In 2003 Hernando Barrage created the development platform wining as a Mayler's thesis project at IDIT : Project goal was to create simple lowcost tools for creating digital project by non-engineering the wining platform consisted of a printed circuit board (PCB) with an Atmegat 168 emboller on IDE based on Processing and Library Functions to easily program the microcontroller the initial Arduno team consisted of Nassimo Bonzi David Caurtieller Tem Igoe Gianluca Nartino and David Mellie but Barrengen was not invited to participate following the completion of

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Sal.	the wining platform lighter and less
95000	expensive versions are distributed in the
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