Experiment no -1 Aim :- study of Raspherry - Pi, Beagle board, Ardying and other micro controller Theory 8-Study of Rospberry Pi3:-The Raspberry Pi is a series of small single - board comp developed in UK by Raspberry Pi foundation to promote teaching of basic computer science in schools + in developing countries. A Raspberry Pi zero with smaller size + reduced TIO+ general-purpose ilo capabilites was released in NOV 15 for US\$5. Paspberry Pi 3 model B was released in Feb 16 + has an board with bluetooth & OUB boot capabilities Processor speed ranges from From to 12 GHZ for Pis, on board memory ranges from 250 mB to 160 Ran Raspberry Pi3 Model B :-In 2006, early concepts of Raspherry P, were based on Atmel Almegas44 microcontroller. The computer is inspired by Acorn's BOC micro of 1981. The first ARM prototype version of computer was muntil in putkage same size as our memory which. study of Beggle Board -The Beagle Board is low-power-open voyree single board conputes produced by Texas instruments in association with Digi Key & Never element 14. The board was developed by 4 small team of engineer an educational board that could be used in colleges around the sell



Fig.1. Raspberry Pi3 Kit



Fig.2.Beagle Bone Kit



Arduino Kit Fig.3.

to truch open sound hardware, settware capabilities The board was designed using codence oreno for schenofics & codence allegeo for PCB none facturing in sincelation software was used Study of Ardvino : The Ardono project storted at Interaction Design Institute IVELY . Italy The initial Ardyino core team consisted of massimo Banzi, David cuartielles, Tom Igoe, David mellis but parragan was not invited to perbeingte Adofruit Industries, a new york City supplies of arduno boards parts & assemblies estimated inmid -2011 that over 20,000 otheral Ardunas had been connescially produced + in sold that too, so official boards usee in useen hands In April 2019 wind reported that musto had "fabricated his academic Heard on his company's website, personal Linked in allounts 4 even on italian business doc, musto was until tecentry listed as holding A PHD from massachusetts institude of technology. Arounded that same time, massimo Banzi announced by Arduino foundation would be "a new beginning to arduino" But a year later, foundation still harn't been established + state of project tempins sun clear Arduno intends to continue to work with all technology vendors & orchitectures. Conclusion 6-Thus, we have studied history of Raspberry Pi, Beagle bone and Arduno