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Piv:- TE(B)

Roll No:-17

Sub:- ESIOT:

Aim - Understanding and connectivity of Rosberry-Pi)
Beigle board with camera write an
application to capture and store the image.

Theory: - Rasberry Pi camera module V2 replaced
The original Camera module in april / 2016
The camera module ap can be used to take
high destination video as well as Stills photographs
are an read all gory details about JM x219
be Exmore Rbach - illuminated Benson architeture
on sony's subsite.

modes as well as Still contain. The camera works with all models of Rasberry Pi,

1.283- It can be access through MMAL

VIL APIS lithere are numerous.

Third-party libraries buil forit.

Camera freview:

From Picamera import skeep

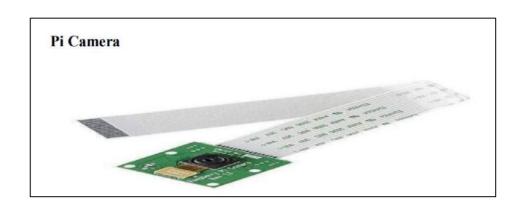
from time import skeep

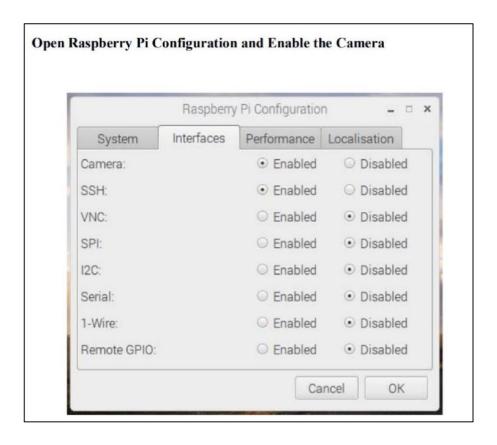
Camera = Pi (amera()

Camera Start - priview()

Steep (10)

Camera Stop-priview().





Rotating the comera :-Comera totation = 180 Campra. Start-preview () sleep (10) comera. stop-preview () Storing the image :from picamera import Picamera from time import sleep Camera = Pilamera () (am era stest-preview () sleep (10) Camera capture ('/home/Pi/desktop/imagel-jpg') (amera stop-preview () Recording he video &from pi comera import pi comera from time import sleep Camela = Picamera () (amera. start - preview () canera. start. Hording ('home/pi/video.h269') Sleep (10) (genera. stop- Hearding () Camera stop-preview () Converting + playing video 3-The video format need to get converted to MP4. so justall apol sudo apt-get install gpac Now convert video to MP4 MP4BOX - fps30 - addvideo. h264 video. mp4

Conclusion:-We have studied Pi comera + stored images + video Pi camera: