

## Assignment C-11

Q.1) What is the difference between Beagle Bone Black & Beagle Bone?

→ Property	Beagle Bone Black	Beagle Bone
Processor	Texas Instruments, Sitara AM3358 RISC	Texas Instruments, Sitara AM3358 RISC
Graphics	Power VR SA X 3D Graphics accelerator.	3G X530, 3D 20M Polygons 3D Graphics
Video	Via HDMI	Via Cape only.
Audio	via HDMI Stereo.	No support, possible via cape or USB audio board card not tested

Q.2] Explain the structure of simulated lift elevator

→ The problem concern the logic required to move elevator between floors according to following structure:

i) Having an unique control system which the elevator & picks up requests using the 1<sup>st</sup> in 1<sup>st</sup> out.

Vector of stack required & controller will start picking these requests.

2. Each elevator has set of buttons 1 of each floor. These illuminate when pressed and cause elevator to visit that floor.
3. Each floor except the 1<sup>st</sup> floor & top floor has 2 buttons, 1 to request on up-elevator and one for down elevator. This button illuminates when pressed. This illumination is cancelled when elevator visits that floor. The elevator moves in desired direction.
4. ~~Consid~~ Continue travelling in same direction while there are remaining requests in same direction.
5. When elevator has no requests, it returns at its current floor, with its doors closed.