1. Duty cycle refers to the percentage of time, an appliance is *actually ON* per hour. Some appliances, especially the ones which have thermostats to control their operation, do not draw energy the whole time, even if they are left ON at the at their plug points. List the duty cycles of all the appliances in the area chosen by you in Homework 3. You **must** state the source from where you found the duty cycle or briefly describe the method of estimating the same. Organise it in a table as below.

Sr. No.	Appliance Name	Duty Cycle	Source/ Brief explanation of how you estimated
1	Hitachi AC	60%	
2.	Philips Tubelight	100%	

2. Refer to Q3. of Home-work 3. You are now expected to give an estimate **(in kwh)** of the aggregate energy consumed by a particular appliance **taking into account its duty cycle**. Duplicate the table structure and populate it with the above info.

3. Refer to Homework-3/Q6. Report any anomaly/interesting finding based upon the inferences which you have drawn. Investigate and explain your finding. For example, the power consumption for tube lights in the library went up during the weekend. One possible explanation is that the students were staying back late as the mid-sems were approaching.

4. List the shortcomings of your estimation techniques. If you were asked to do the study again, what things would you do differently?