Question 1 (Software quality) [20 mins]

- Describe the general concept of software quality and possible definitions/standards, also providing examples.
- Enumerate the qualities of the ISO 25010, for each of them provide the definition and possible ways to measure (indicators), also via examples.

Software quality:

- of a sur to satisfy functional and non-functional requirements
- 2) The bover out which the sw meets the ween meeds.

Stoundwoods: 180 9000 (family of stoundards): quality for management. -> 180 9001: obstines the concept of quality for am area unisortion by the means of a quality manual and a quality policy.

180/IEC 9126: software quality (and version)

L) 150/ IEC 25010: new version; defines the sw quality on 5 did in the first definition. Two types of sw quality (iso/ IEC 25010):

- 1) Quality in use: sw quality pocceived by the user in using the sw in a particular context of usage. 5 descenteristics:
 - @ Effectiveness: # of teached goals wet total goals of wor
 - @ Efficiency: offort wet offertiveness
 - 3 Satisfaction: degree to which wer is satisfied in using the sw (e.g. aesthetics, comfort,...)
 - (a) treedom From Risk: sw must not infect the social ntate of user (se economical state, social life, howlthcore,...)
 - (5) Context Coverage: # of intended and unintended context of

usage of the sw perceived by users

- 2) Product Quarty: quality of the sw product (i.e. rates, procedures, documentation and experiated data). 8 characteristics:
 - (9) Functional suitability: degree of cooxectmen, completenen and usefulness of the functionality provided by the SW
 - (2) Performance officiency: level of resources utilization of the sw with its effectiveness
 - (B) Compostibility: degree to which the sw in able to exhauge info with other SW1 that share the same hu/sw infrastructure
 - Walterly: degree to which the sw in mable fore
 - (3) Reliability: degree to which the sw is able to work correctly for a given period of time
 - (a) Security: degree to which the sw is able to built accent to about that should not be seen/accessed from unouthorized people (confidentiality, outhertication)
 - (F) Mountoumoubility: degree to which the sw is modifiable by the intended maintourners.
 - (3) Portability: degree to which the sw is able to be ported between different overhitectures/infrontrantures.