- a) First generation computers were vaccum tube ones and the second generation ones were the first transistor ones. Despite compailers that are made of transistors were much more reliable and small, they were not cheap either and the first versions of serond generation computers were washing hots of valuable CPU time while reading punch cords until seperate machines used for roading cords into topes or printing result from the tape. So the first users were not happy from this lack
- 5) While POSIX systems has hundreds of systemicalls Windows has thousands of them. The nown reason for this is firstly in-windows graphical user interface is a part of the ternel but in POSIX It Is not. And another reason may be is windows built on top of MS-DOS.

 It inherited lots of implementations and added new ones too.

Advatages of mikrokenel:

More lightweight. If mikrokenel is more lightweight lit means rithas less bugs and less possibly it will crash. So it is more secure also.

Disadventages:

- · More complicated to design and structure.
- · More exposive to develop and maintain.
- · It works fasks.