

Assignment - 01

Ans. To The Q. No. 1

A good interface makes it easy for users to the system what they want to do. and system to understand those information easily.

In case of a coal mining system here. We use two type of scenario, one is external input and interface and other is output device as output interface.

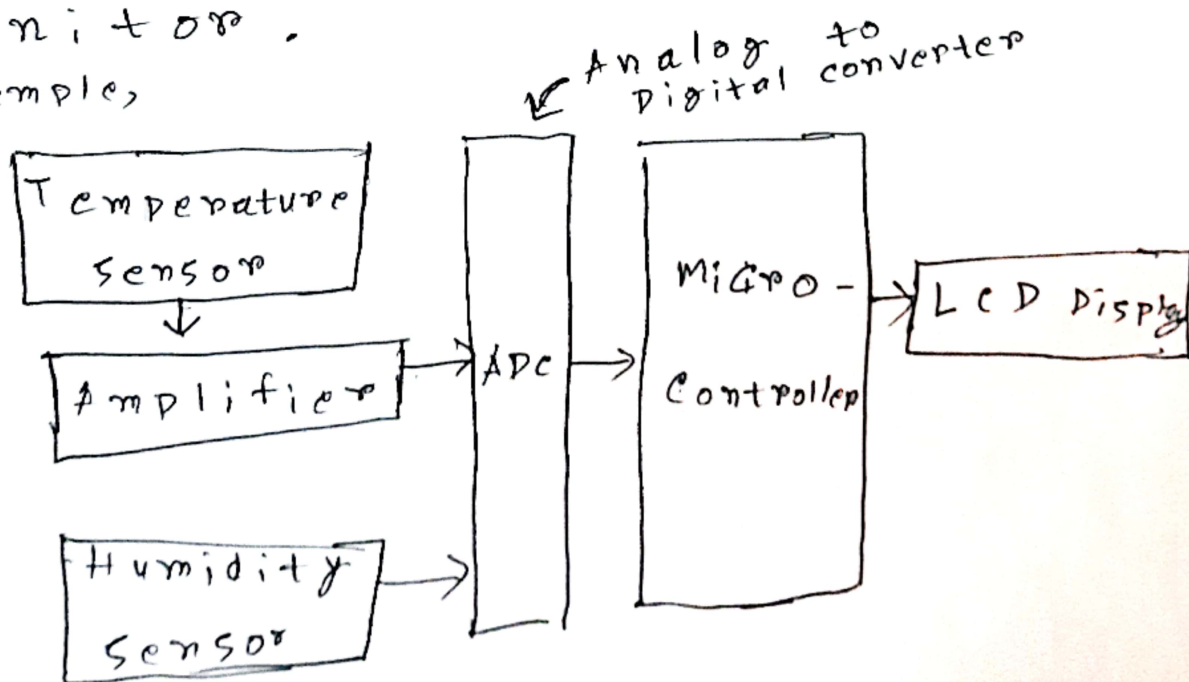
External input interface pin are for sensing like temperature sensor and humidity sensors.

This sensor collects analog data

from its surroundings and converts it to digital data using microprocessors. ~~A~~

After detecting the values output device monitor as external output interface. converted digital data from microprocessor or the memory than displayed on the monitor.

Example,



Ans. To The Q.No. 2

Over 70 percent of new smartphone models released with USB-C. Because a USB-C connector is much smaller, more rounded and symmetrical which means it works no matter which way you insert into the port.

The USB-C itself has many upgraded variant which can transfer file up to 20 Gbps speed.

USB-C is still backward compatible with USB-A devices through the use of adapter. USB-A can only plug in one way so have to check the right way before every connection.

USB Type C's predecessor USB ports
are massive so modern slim

devices didn't ~~fit~~ work with those.

USB-C cables can carry significantly
more power, so they can be used
to charge larger devices like
laptops.

So, overall we can say USB Type
C is more capable than its
predecessor USB types in
every aspect.