**Power Supplies**

Normally, we need to select the exact power cables or supplies that our computer needs. Otherwise, if we supply the power more than a laptop or a computer needs, then it will gonna damage several internal parts of the CPU or computer itself. And in the contrary, if we supplied less power to the computer than needed, then the expected performance that we want from the computer will not be delivered. Hence, we should use the correct power supplies.

**Selecting a power supply**

When we select a power supply, we need to consider several things:

1. Local Input Voltage:

As we know, the electricity that we receive in our home is AC current. Its voltage is different in every country. Like in Nepal we receive the voltage between 220-240V. It means that the current we get when we plug something in the wall socket. In Canada, the voltage inputs is 110-120 VAC. (Volts of Alternating Current).

So, based on this, the laptop is sold in these countries. I mean, the laptop which needs the power 220V is sold in Nepal whereas the laptops which needs the power 110 is sold in Canada.

So it is important to use the correct voltage power supply or power converter for the computer’s voltage specifications.

A screenshot of a computer

Description automatically generated

1. The motherboard and the form factor specifications document will provide the list of compatible power supply types to help us select the correct part. The form factor size and components embedded in the motherboards will create a starting point for the minimum power supply wattages required.

