slide 1:

Hello everyone, my name is Tiange. This is Haotian. Welcome to this week’s tutorial. Today we are going to talk about the environmental concerns, which is closely relevant to our lives. Before we start, let’s focus on two interesting questions.

(Move to slide 2, click)

slide 2 Bring your thoughts:

Have you ever thought about how many greenhouse gas emissions a computer can produce every year? I bet this is not the first question that come out of your mind when talking about the environmental concerns and greenhouse gas.

(Click slides and let someone answer)

OK. Let’s see what we found in the investigation. Actually, one small desktop like we have on the desk produces roughly 130 kg CO2. Wow, very amazing!

(Click slides)

What about trees? How much carbon dioxide can a tree absorb annually?

(Click slides)

A single tree can absorb almost 22 kg CO2 per year. This means the CO2 produced by a computer is absorbed by nearly 6 trees. Very shocked and unbelievable!

(Move to next slide)

Slide 3: (Point to the pics)

Have you ever seen these terrible pollutions before? Garbage everywhere, water pollutions, poisonous gases. In fact, they happened every day on the earth, especially in China. Over the last few decades, the exploitation of our planet and degradation of our environment have gone up at an alarming rate. As our actions have been not in favor of protecting this planet, we have seen natural disasters striking us more often in the form of flash floods, tsunamis and cyclones.

Therefore, today, we want to attract your attentions on environmental concerns and as a software engineer, find sustainable, efficient and effective solutions with IT instead of traditional methods.

We hope all of us will have green IT minds after the tutorial.

(Move to next slide)

Slide 4:

OK. For these issues, let’s discuss some traditional ways to figure out them. I will give you 10 mins. OK. Let’s start!

(10 mins after)

OK! Time is up! What we have on the whiteboard? Emmmm…Good….

Could someone explain these?

Next, welcome Haotian to demonstrate some improvements with IT.

(Move to next slide)

Redesign idea:

If we reduce our use of fossil fuels, we will reduce the amount of extra carbon dioxide that we put into the atmosphere. We replace the use of fossil fuels with other fuel supplies. For example, replace filament light bulbs with lower energy options such as LED lights to improve efficiency, increase the number of kilometers driven per liter of fuel to improve the efficiency of car.

Here I find an interesting video with using some chemical methods to reduce the carbon emissions.