Big Bang Theory

Summit Mullick

- Chief Information Officer Government of Maharashtra

I always believe in what Aristotle said "all knowledge is of value and that every person is to become a universal man or woman", by which he meant something about everything. This will probably give you a sort of a basis on which you can understand yourself better, where we come from and where we ae going. The best place to start to become a universal man or woman is from the universe itself and let us examine where the universe began from.

Big Bang Theory

From almost 14 billion years ago from almost nothing, what occurred was an infinitely dense matter blew apart and then matter was born, time was born, space was born and the universe started expanding and is still expanding and we are all part of that Big Bang. Because when the Big Bang occurred all the minerals and all the metals that our body is made out of came all from the Big Bang.Hence we are all children of the universe.

Soon after the Big Bang the galaxies were formed and when it happened, all the molecules, all the atoms were spewed out and this is how our galaxy was formed. And it was not only one universe that was formed, but it was multi-universes.

Space was formed due to the Big Bang. Now you might think that space is empty, but it is not empty. Every object has an effect on space. It creates a dent in the matrix. Matrix is space and time and heavier the object the bigger the dent. This is one way we can enter our universe, through a wormhole. The heavy object like the earth, will cause a dent. For example, if we take a thin sheet and ask four people tohold it, and place a heavy object in the centre, it will create a dent. But if it is heavier it will tear the sheet.

After the galaxies, space and time was created, Earth was formed 10 billion years ago. Slowly things started to form due to the formation of bacteria and chemical and then life started. 300 million years ago we had the Permian period i.e., geological period. It was a great explosion of life. But there has also been extinction of life. Just after the Permian period there was soon an extinction due to many reasons like environmental change, meteor crash or floods. therefore life will always end and nothing will remain forever. So after 30 million years later came the Jurassic period. But they too became extinct. After the dinosaurs became extinct the mammals started to form life and later the homosapiens were created. We are the homosapiens. Homosapiens evolved around 10 billion years ago. And we soon started to change. From 40 billion yearsago we come down to ten thousand years ago. Ten thousand years ago we were hunters and gatherers and then we decided to settle down to pastureand cultivate. And soon civilisation started. There were multiple civilisations and the oldest that we know is the Indus Valley Civilisation. Then we had the age of empires for at that time we didnot have nations. We had the Babylonian empire, West African empire and so on. Then we also had the Moghul Empire started by Babar who was the grandson of Genghis Khan, followed by the MauryanEmpire and so on.

Then Nation States were formed.Nation States were formed due to tribal instincts. People came together as one people, one culture and one language. They felt they must stick together and draw a line around them, a boundary line, or make a flag. This leads to the biology of us humans. Some people suffer from xenophobia which leads to aggression and territorialism, which is quite dangerous as the nation states were formed through horrible wars, like the World Wars, the ColdWar, the Civil war and even the horrible act of killing the Jews - the '*Holocaust*'. All of which happened due to the feeling of homogeneity.

In the universe there are other species, besides humans, but we do not know why they have not contacted us. Perhaps, because the aliens are scared of us or they think we are violent or perhaps, they are among us already. This brings us to the question of dimension. We are familiar with the three spatial dimensions, but mathematic prove that there are at least 11 dimensions. Now if there is someone from the fourth or fifthdimension, even if they are right next to us we cannot see them.

Coming back to nation states, we must remember that we live in a nuclear age, it is more dangerous if nations fights rather than just few people fighting amongst themselves. There is a theory, some universal law that once civilisation reaches some technological level that we are now in, it has to self-destruct so that it does not contaminate other parts of the universe. We have to learn to save ourselves from ourselves.