<u>**Academic Session 2020-21**</u>
<u>**Home Assignment- I**</u>
<u>**Subject: Computer**</u>
<u>**Class: VII**</u>

350 years ago, a 22-year old Isaac Newton found himself confined to his home. He was a student at Trinity College(Cambridge) when college started sending its students home (promoting social distancing) amidst the Great Plague of London, which decimated nearly a quarter of its cities population between the year 1665 and 1666. It was during this time, also described as *his years of wonders*, that Newton developed some of his most profound discoveries, including early calculus, as well as his theories of optics and gravity.

Along similar lines, Nazareth Academy is encouraging its students, through this assignment , to take inspiration from Isaac Newton and utilize this forced confinement caused by SARS- Cov-2 to dream ambitiously and do wondrous things such as writing, coding and creative expression, to name a few. Planning to celebrate the best and most innovative works made by students during this period when it reopens, the Academy is introducing some exciting and fun challenges for you.

Some of the activities under this assignment:

- *The Leadership Challenge:* After watching the given links of Ted Talks by renowned personalities in the field of computer Science, Educational research and public speaking, the students have to ==write 50-100 word summary/insight/observation/reaction to the video in their computer notebook.==

  Choose any One

  Link of a speech delivered by Bill Gates in 2015
  https://www.ted.com/talks/bill_gates_the_next_outbreak_we_re_not_ready?language=tlh
  Link of a speech delivered by Sugata Mitra
  https://www.ted.com/talks/sugata_mitra_how_children_teach_themselves?language=en#t-101165
  Link of a speech delivered by Sparsh Shah
  https://www.youtube.com/watch?v=bC0hlK7WGcM
  Link of a speech by Ishita Katyal
  https://www.youtube.com/watch?v=Na9g6raGwio

- *Don't Quarantine your Cornea! :* After watching the given links on Scratch Programming language. ==Write important points and definitions in your computer notebook.==

  Link for Introduction to Scratch Programming
  https://www.youtube.com/watch?v=JcOcxKWgnps&t=190s

Adding a new Sprite
https://www.youtube.com/watch?v=6bAcKg4-hBg
Using Pen Blocks in Scratch
https://www.youtube.com/watch?v=H7y-Qoc7HEA

Topic: Create basic Shapes in Scratch

- *3 Days of Code:* After watching the given links, *CREATE* basic shapes in Scratch and <mark>write the codes in your copy.</mark>
  How to Draw a Square
  https://www.youtube.com/watch?v=OnSrUPdCXOE
  How to Draw a Pentagon
  https://www.youtube.com/watch?v=qGiGI5t-xKk
  How to Draw a Circle
  https://www.youtube.com/watch?v=d5O6ETKNMLk

  Project Work:-
  Download the Scratch Programming Language from the following link and do simple programming in Scratch.
  https://scratch.mit.edu/download/scratch2