1 Alan Turing and the Apple

- 2 In his article "Evolution of the Universal Machine" Dr Karl discussed the possible original
- 3 Apple logo the rainbow-**striped** silhouette of an apple, with a bite out of it. The **widespread** story
- 4 about the origins of this logo is also linked with the genius Alan Turing, the father of the modern
- 5 computer.
- 6 During WW II, Alan Turing and his colleagues at Bletchley Park outside of London were able to bust the
- 7 **supposedly** unbreakable German Enigma code. He did this using an early **predecessor** to our modern
- 8 computer. Some historians say his work was **essential** to winning the war. Turing, in his theoretical
- 9 design for our modern computer, had realised a **fundamental** truth.
- In the real world, there is a big difference between a tool, and the **medium** that the tool acts upon. For
- example, in carpentry, a metal saw (a tool) is quite different from the timber (which is processed by the
- saw). Not so in the virtual world, and Turing realised this. He **proved** that there is no fundamental
- difference between 'data' and the 'instructions' that **process** the data. (Today, we **label** these 'instructions'
- as 'programs' or 'applications'). This is why you and I accept that our computers easily **handle** both
- programs and data as bunches of 1s and 0s.
- But Turing was the first person to prove mathematically that there was no essential difference between
- data and applications. This deep and fundamental understanding **sped up** the introduction of computers
- by decades. It has been said that Turing's work in breaking the Enigma code shortened the Second World
- War by two years. But for various reasons, the work of Turing and his colleagues was **kept secret** by the
- British until 1974. In January 1952, Alan Turing's house was **broken into**. He told the police that he
- 21 suspected the robber to be a friend of his boyfriend. At that time, homosexuality was a criminal **offence** in
- the United Kingdom. Alan Turing pleaded guilty and was given the choice of either jail **imprisonment**,
- or probation with chemical castration that is, injections of female hormones.
- Alan Turing chose the **punishment** of the feminizing hormones, became sexually impotent, and grew
- breasts. He was labelled a security risk, and no longer **had access to** the people and projects he loved.
- As the story goes, on 7 June, 1954, he committed suicide by eating an apple laced with cyanide. **Indeed**,
- a half-eaten apple was found in his apartment. What is the **significance** of the half-eaten apple? It **turns**
- out that Turing's favourite movie was Snow White. You know the plot the princess falls into a deep
- sleep after eating the poisoned apple, and is awakened by the kiss of the prince. That's **supposedly** why
- 30 Turing **committed** suicide with a poisoned apple.
- 31 So is that the reason why, some two decades later, to **honour** Alan Turing, the Apple company designed
- 32 their logo to have a missing bite? And was it because he was a homosexual, and as a salute to Gay Pride,
- that the Apple logo from 1976 to 1999 also **incorporated** a horizontal band of rainbow colours?
- No. Stephen Fry asked Steve Jobs, one of the founders of Apple, whether this urban myth was true. Steve
- Jobs replied, "God, we wish it were." But, like all successful myths, it has elements of truth in it. Yes,
- at the inquest the coroner **determined** that Alan Turing did die from cyanide poisoning. Yes, there was
- an apple with a bite taken out of it in his apartment. But first, the coroner did not analyse the apple to see
- if it contained cyanide. So we'll never know that detail. Secondly, there is much **circumstantial** evidence
- suggesting it was not a suicide, but an accident. Alan Turing had set up an apparatus to electroplate
- spoons with gold in his tiny **spare** room. He was using potassium cyanide to **dissolve** the gold, and may
- 41 well have accidentally **inhaled** cyanide fumes. He always ate an apple before going to bed, and would
- sometimes leave them half-eaten.
- 43 **Despite** the stress of his legal setbacks, and the **side-effects** of the female hormones, Turing was not
- depressed and indeed was in good humour. In fact, he had written down a list of jobs to complete at work
- 45 after the holiday weekend. Most of us with computers have no idea that Alan Turing was their father. But
- 46 we all make our own personal **tribute** to this genius, every time we press the screen of our smartphone to
- 47 ring, or 'Turing', somebody (get it?) ...