# REVISIONS CHAPTER 1, 2

**Q1 -** Find the rule of this sequence and the next number

1, 4, 9, 16, 25, ??? Answer: 36

**Q2 -** Find the rule of this sequence and the next number

0, 1, 1, 2, 3, 5, 8, 13, 21, ??? Answer:34

**Q3 -** Encode your name in:

1. ASCII 54 72 61
2. EBCDIC

*Note you can search on the web for EBCDIC encoding*

Example: the name "Russell" becomes (hexadecimal bytes)

1. 52 75 73 73 65 6C 6C
2. D9 A4 A2 A2 85 93 93

**Q4 –** Complete the table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Base 10 | Base 2 | Base 7 | Base 8 | Base 20 |
| 45 | 101101 | 63 | 55 | 29 |
| 785 | 1100010001 | 2201 | 1421 | 1J5 |
| 999 | 1111100111 | 2625 | 1747 | 29J |