

Question: How is the following string stored on the computer using binary.

Avinash 40

Answer: String "Avinash 40" consists of 10 characters, each having an ascii value

ASCII VALUE in DECIMAL NUMBERING SYSTEM (base 10) => human readable

65 118 105 110 97 115 104 52 48

ASCII VALUE in BINARY NUMBERING SYSTEM (base 2) => computer readable/writable

1000001 1110110 etc.

Formula to Convert 65 to decimal

No Division	Result	Remainder
1. 65 / 2	32	1
2. 32 / 2	16	0
3. 16 / 2	8	0
4. 8 / 2	4	0
5. 4 / 2	2	0
6. 2 / 2	1	0
7. 1 / 2	0	1

Formula to Convert 118 to decimal

No Division	Result	Remainder
1. 118 / 2	59	0
2. 59 / 2	29	1
3. 29 / 2	14	1
4. 14 / 2	7	0
5. 7 / 2	3	1
6. 3 / 2	1	1
7. 1 / 2	0	1

etc.

2. List all ways of concatenating strings

- a. +
- b. StringBuilder / Append()
- c. String interpolation
- d. String.Format

3.

3. Assignment of reference variables, always does a full clone unlike C++ which just copies the reference information.

See Example `Day3Demos.Demo02Literals.Demo03String.TestCopyTo1` & `TestCopyTo2`

