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Number System in Java

=> Number System :-

- -> We i.e. Human beings communicate in words, characters and numbers but computers communicate only in numbers.
- -> The data or character that we provide to computer is converted into number (In java all characters have unique integer value known as ASCII)
- -> Computer (Programming Languages) communicates only in numbers thus there are 4 number systems:-
 - 1. Binary Numer System (Base 2)
 - 2. Octal Number System (Base 8)
 - 3. Decimal Number System (Base 10)
 - 4. Hexa-Decimal Number System (Base 16)
- -> Java supports all number systems but default is "Decimal Number System"

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- 1. Binary Numer System (Base 2) :-
 - -> Alphabet : 0,1
 - -> Prefix: 0b or 0B
- 2. Octal Number System (Base 8) :-
 - -> Alphabet: 0,1,2,3,4,5,6,7
 - -> Prefix : 0 (zero)
- 3. Decimal Number System (Base 10) :-
 - -> Alphabet: 0,1,2,3,4,5,6,7,8,9
 - -> Prefix : does not have any prefix
- 4. Hexa-Decimal Number System (Base 16) :-
- -> Alphabet : 0,1,2,3,4,5,6,7,8,9,A (10), B (11), C (12), D (13), E (14), F (15)

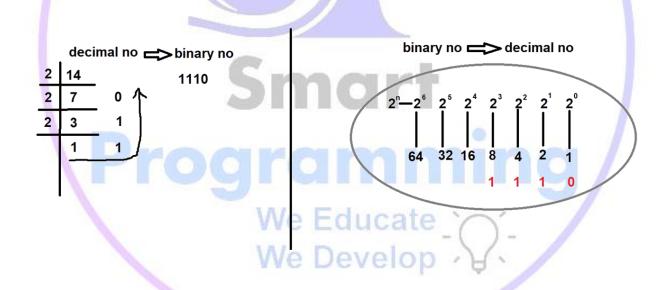
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-> Prefix: 0x or 0X

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=> Conversion :-

- 1. If we want to convert Binary or Octal or Hexa-Decimal number system to Decimal number system-> Integer.parseInt("no", base);
- 2. If we want to convert Decimal number system to Binary or Octal or Hexa-Decimal number system > Integer.toXxxString(no);



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Number System & Conversion in Java

	Binary Number System	Octal Number System	Decimal Number System	Hexa-Decimal Number System
Alphabet	0, 1	0,1,2,3,4,5,6,7	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9, A,B,C,D,E,F
Prefix	0b or 0B	°h	does not have prefix	0x or 0X

Integer.parseInt("no", base);

Integer.toBinaryString(no); Integer.toOctalString(no); Integer.toHexString(no);

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Company Links & Contacts

Company Name: Smart Programming (+91 62838-30308)

Address: Chandigarh & Mohali (Punjab), India

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