System.out object class

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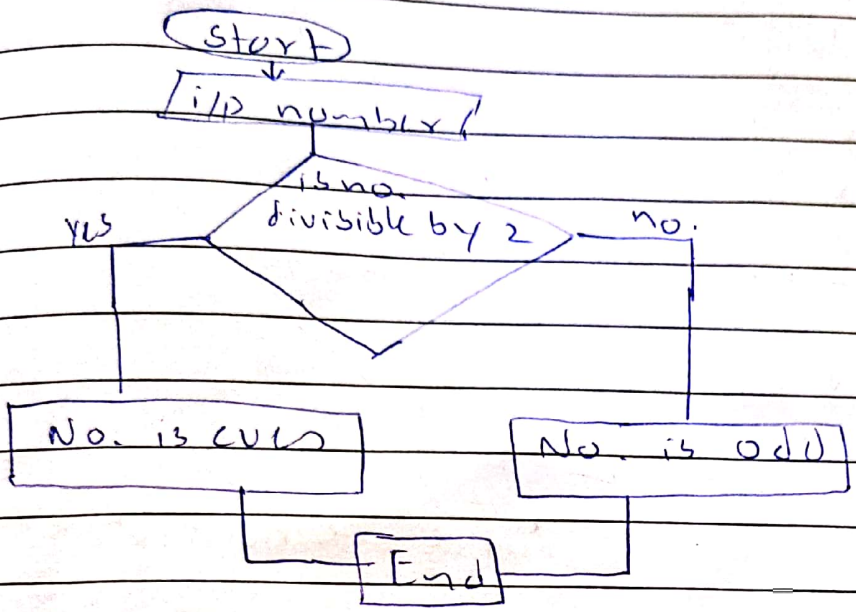
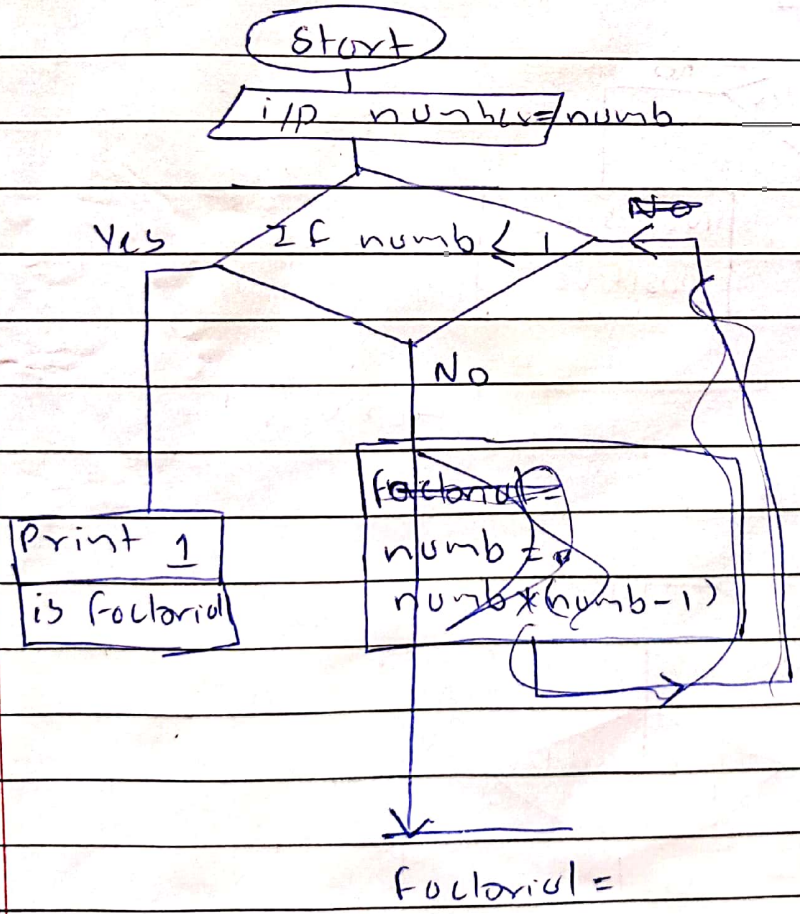
Assignment 1

Q1)



"Even odd"

Q2)



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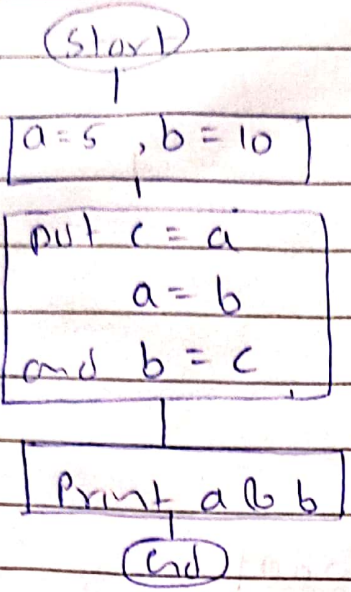
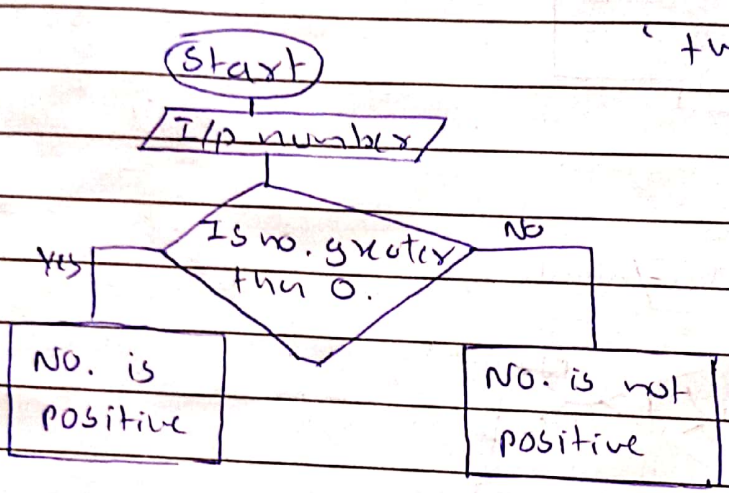
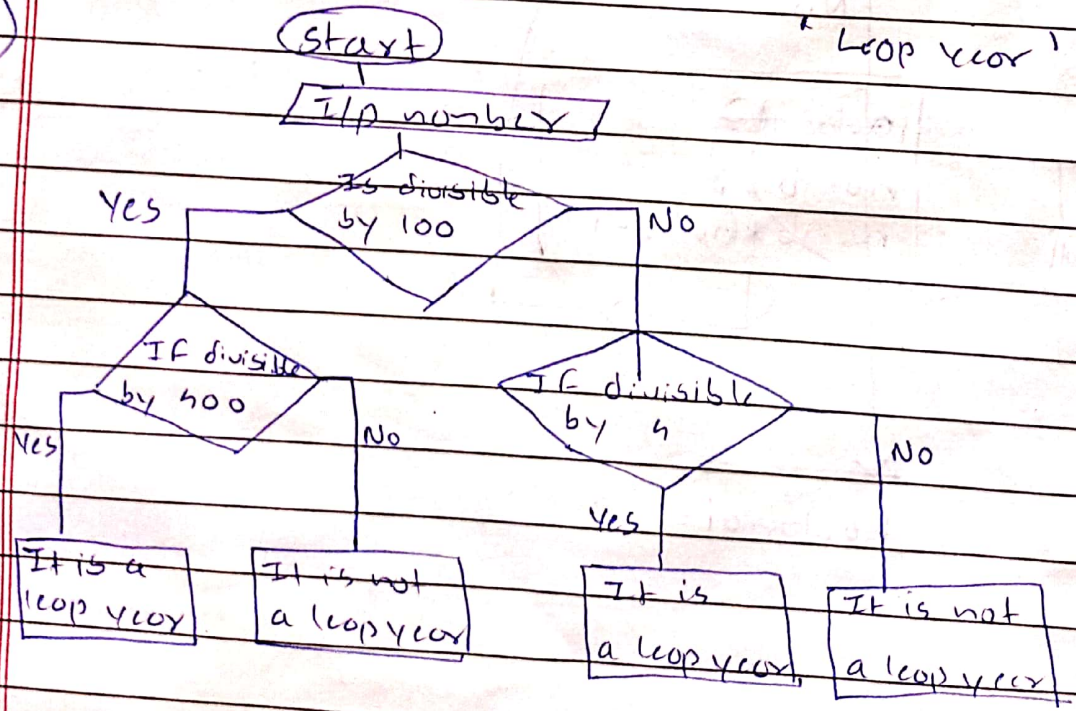
Q4) 'change of values'



Q5) '+ve -ve number'



Q6) 'Leap year'



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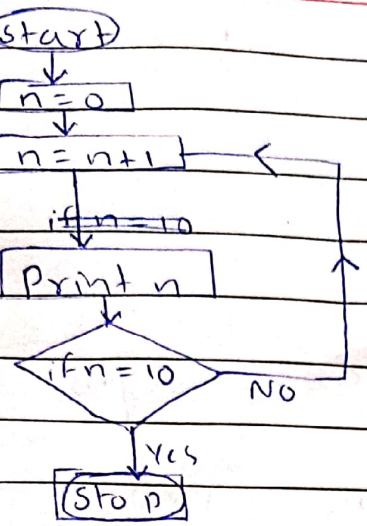
Q7)

"printing 1 to 10"



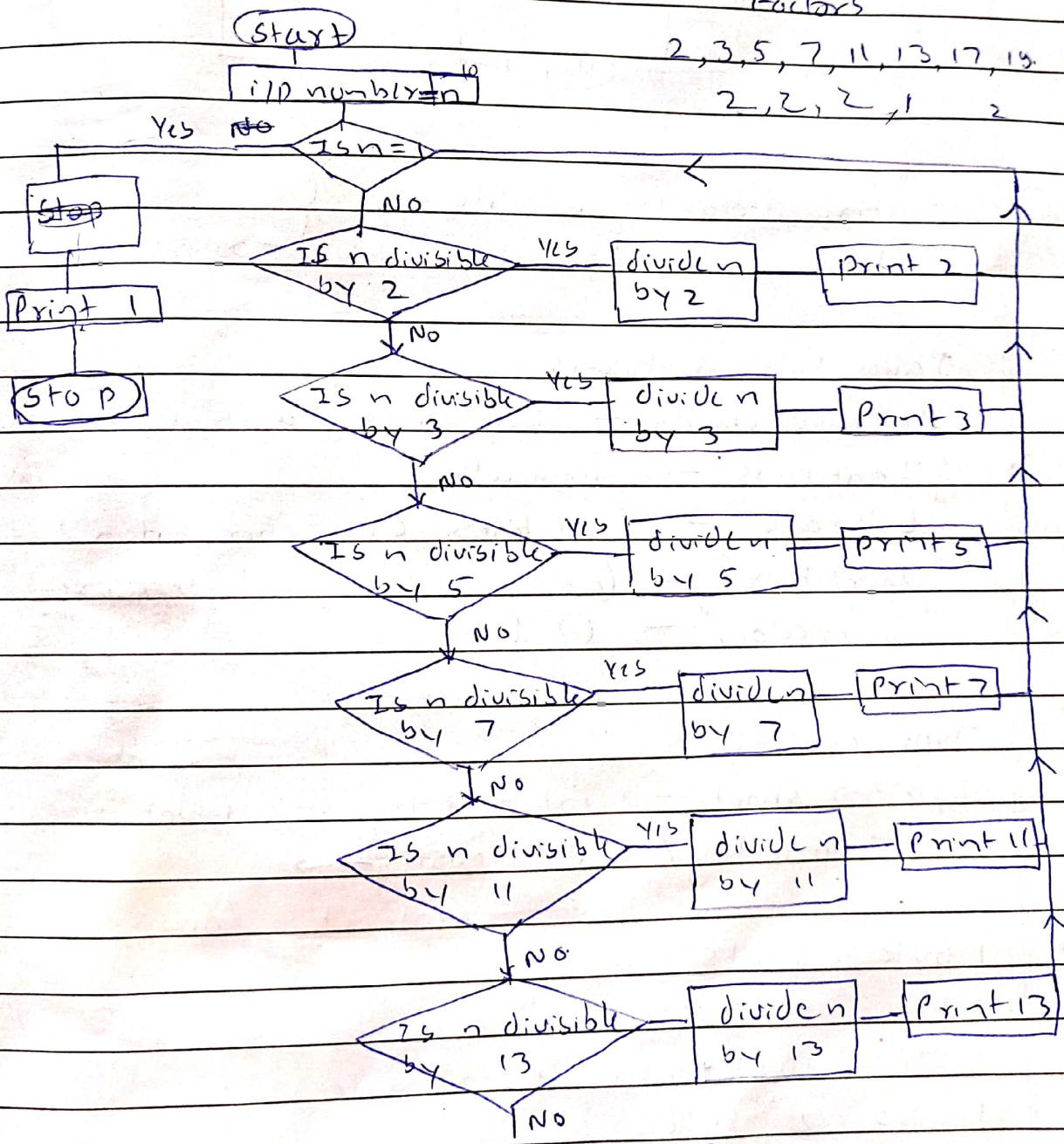
Q9)

Q12)

"Factors"

2, 3, 5, 7, 11, 13, 17, 19.

2, 2, 2, 1 2



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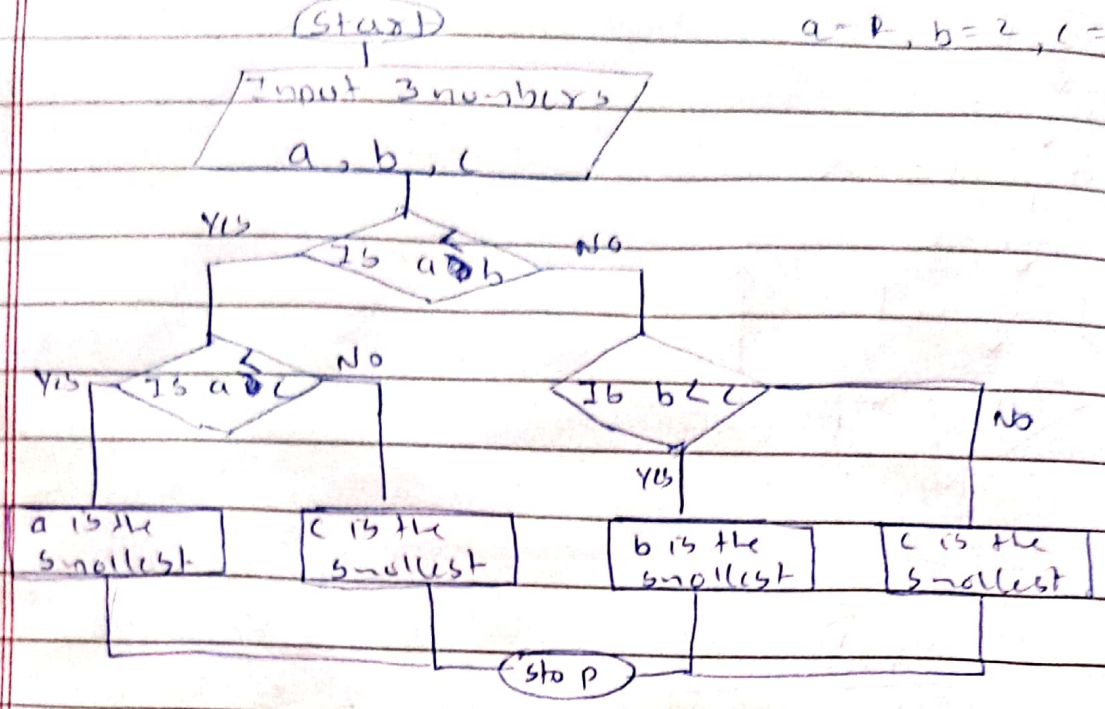
Q11)



a = 1, b = 2, c = 4

Class] Multiple classes - possible
Multiple main f^n - not possible } - only 1 main.

Datatypes
Java has 5 tokens
i) Reserved words — "keywords" (abstract, case, short)
ii) "Identifiers" — variables
iii) "Literals" — constants. (int, char, boolean)
iv) "Operators" — (assignment, logical, bitwise)
v) "Separators" — (), [], {}, ;

Type casting.
byte --> short --> int --> long --> float --> double
↳ upcasting / implicit casting →
← explicit / down casting
(float, double)

- 1 byte = 8 bits
- 1 KB = 1024 byte = 2^{10} byte
- 1 MB = 1024 * 1024 byte = 2^{20} byte
- 1 GB = 2^{30} byte.
- (Terabyte) 1 TB = 2^{40} byte.
- (Petabyte) 1 PB =
- (Exabyte) 1 EB =

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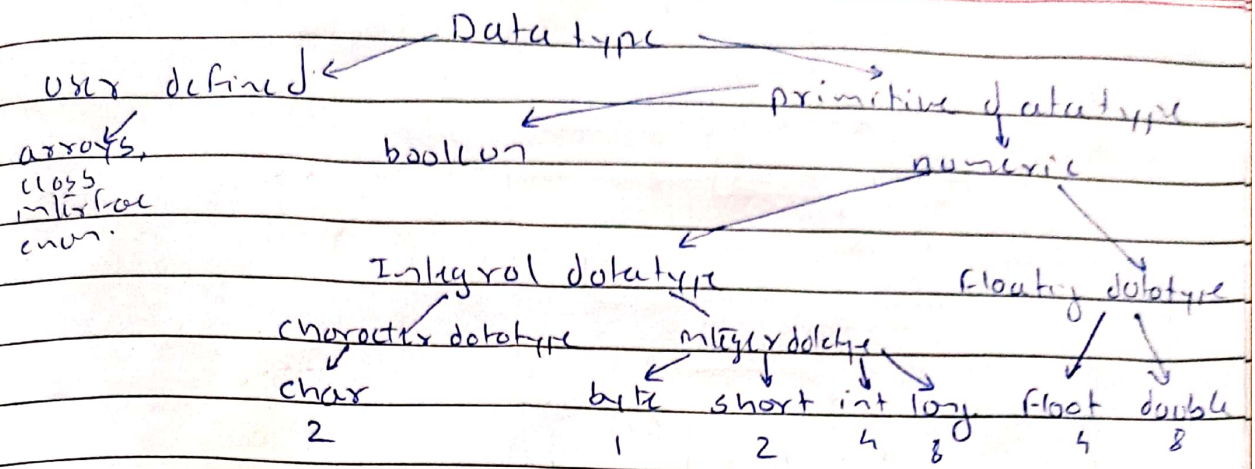
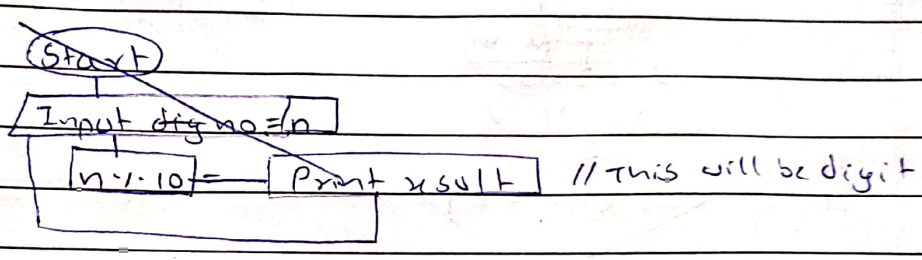
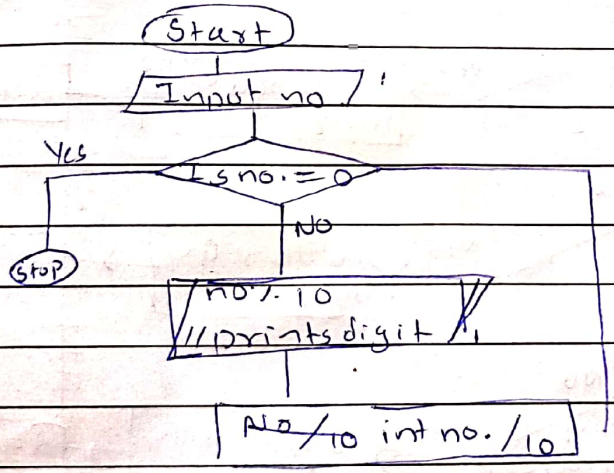


Assignment (continue)

(Q8)

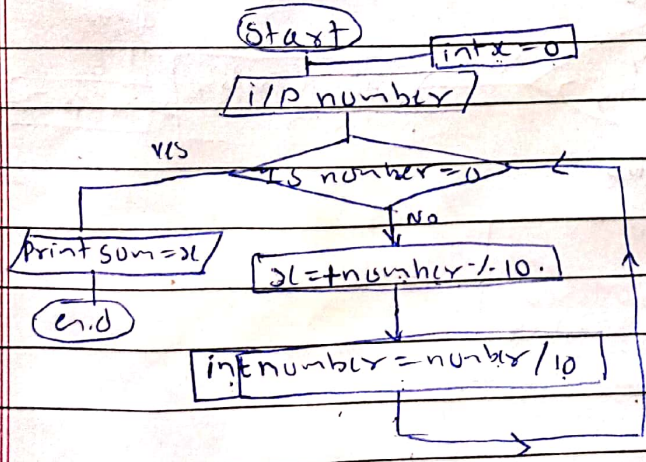


"digits of a no."



(Q10)

"Sum of no. digits"



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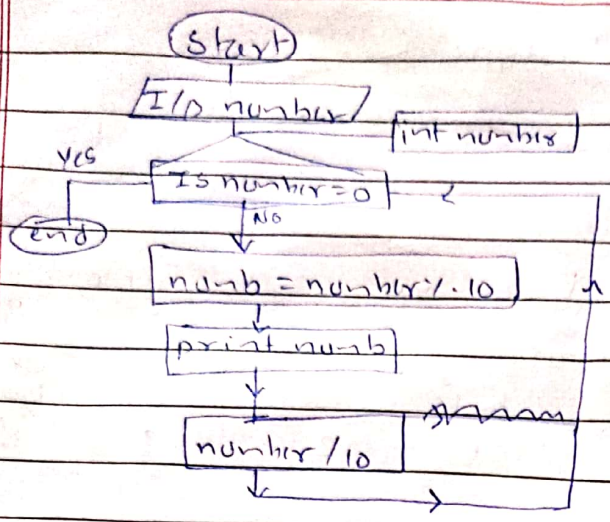
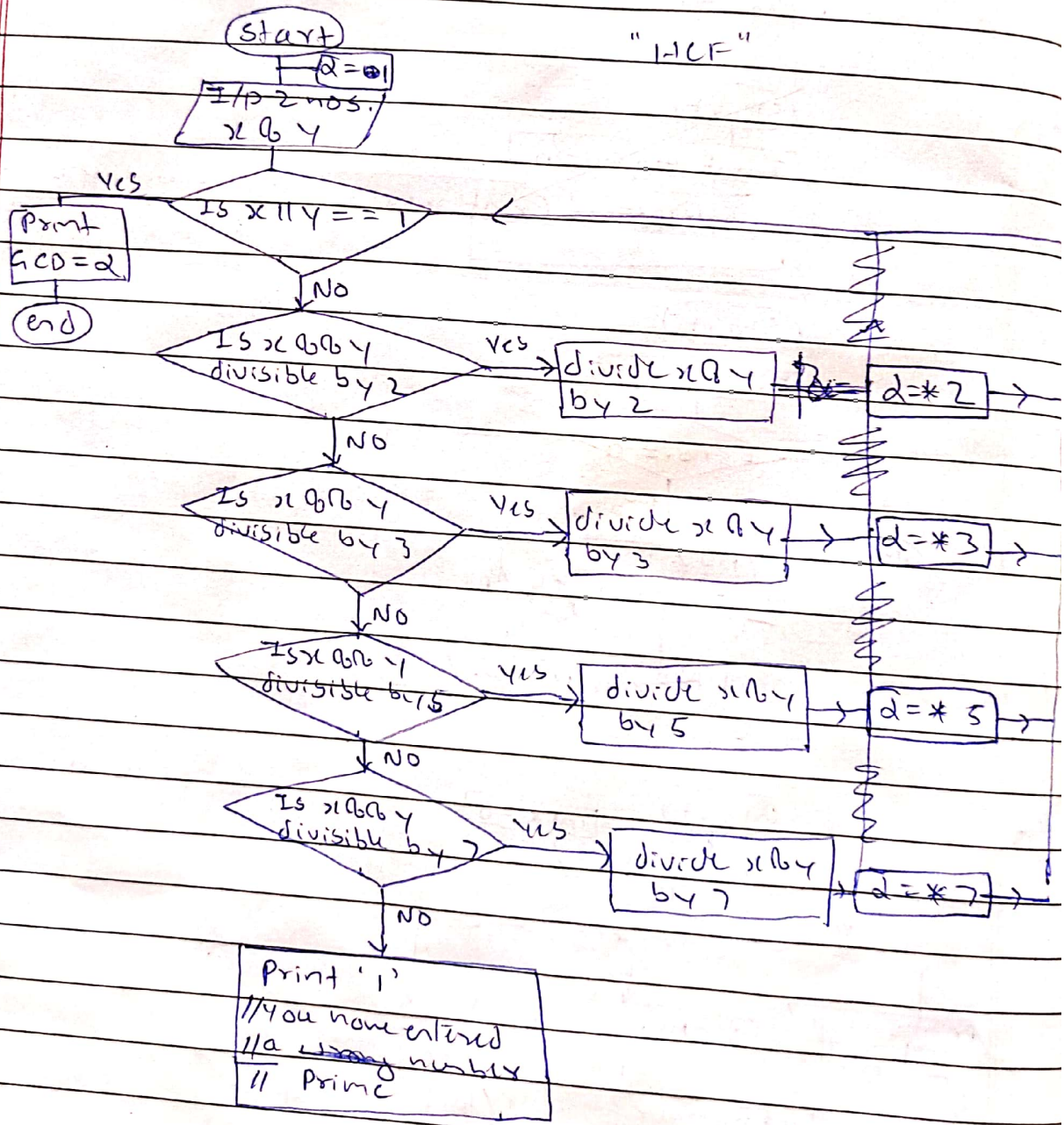
(3) "Reverse a no."



(4) "HCF"



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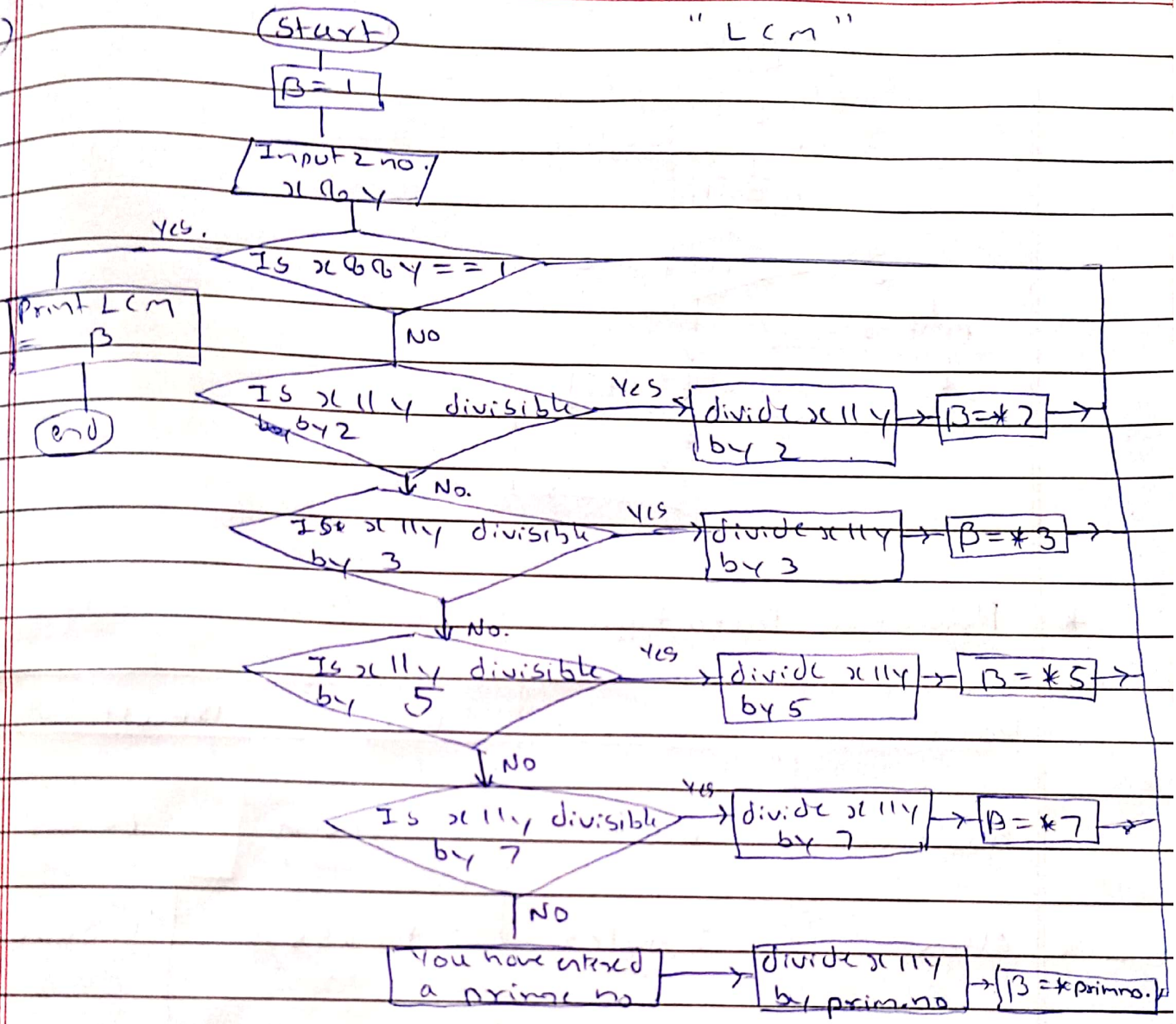
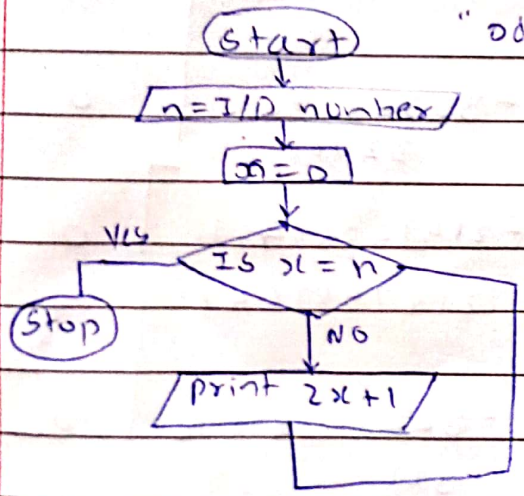
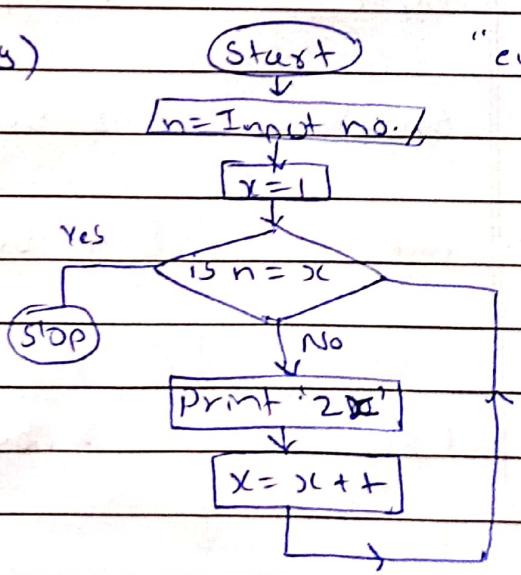
15) "LCM"



16) "odd"



17) "even"



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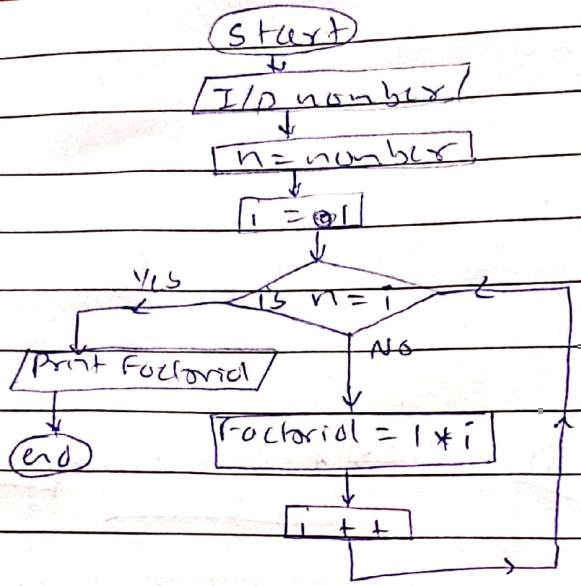
2) "Factorial"



* Primitive Data types

Data Type	Size	Range	Default value
boolean	1 bit	true, false	false
char.	2 bytes	0 to 65535	'\u0000'
byte	1 byte	-128 to 127	0
short	2 bytes	-32,768 to 32,767	0
int	4 bytes	-2147483648 to 2147483647	0
long	8 bytes	-922... 808 to 922... 807.	0L
float	4 bytes	$3.40282347 \times 10^{38}$ to 1.40×10^{-45}	0.0f
double			

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