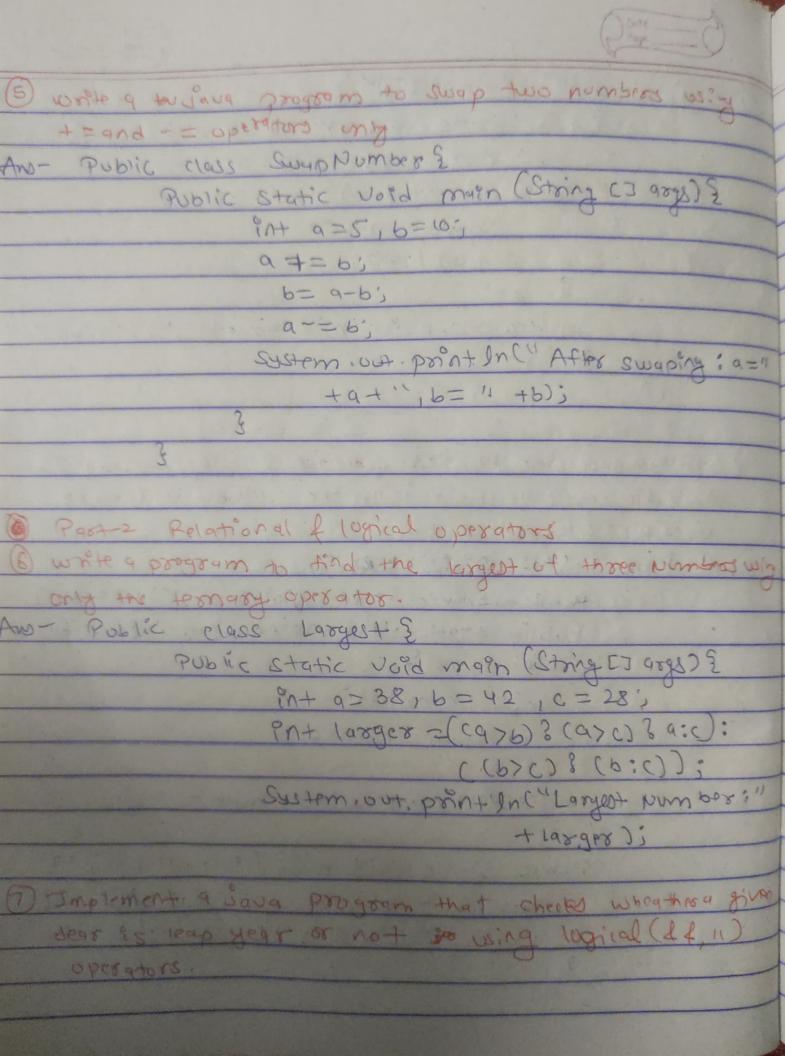
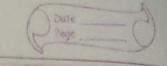


And Public class Sum of Digits 3 Public Static void main (Stong CJ 90 \$) ? Ent num = 1234; sum=0; while (num 70) 2 Sum += n-m0/0 10; num = 10; System. out, print an cusum of digits; 11+50mi 3 write a program to find wheather a given number is divisible by 3 without using the modulus (ole) or division (1) operation. AND PUBLIC CLOSS Divisible & 3 Public Static void main (String (Jaggs) & Public Static Lord main boolean is Divisible cent num 12 while (num >3) { num = num-3; return num == 3: 11 num == 0; Public Static Void main (String [] 900) ? System, out, printen (is Divisible (#78)? " Diverbe" "Not Divisible" J 3





Public class Leap Years Public Static void main (String) args) & Anogot year = 2000; booleon isleap = (Year % = 4 = = 0 44 Year % po 9=0)11 (AGAR 0/0 400 ==0): System out, print on (is Leap & "Leap Year": "Not a Leap year 11); (8) write a program that wheele three booken in puts and point the it at least two of them are true. Ano- Public class Tooleans Public Static void main (String [] 9895) 2 boolegn a = tove b = falle, c=tove; System . wit. pnont In (C9 445) 11 (64fd)(1 (a4+()); (3) Implement a sava program that the che che if a number is within a specific range (26 to 56) without using And Public Class In Range ? Public Static void main (cting co args) ? int num = 38; System.out, point on (num >= 20 ff nom (=5)

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God G @ maje a program to determine et a character is a vowel or a consonant wing the trangery operator And Public class Vowel Consonant? Public Static void main (String Crarge) & CH98 CH = A'S System. out. printon ("AFIOU accou", index of (cn) = -1?"Vowel": "consonant"); Part - 3 Bitwise oprostous 1) write a program to check if a given number is a power of a using bitwise operators. And-Public class Powers Public Static Void main (String [] 9045) } PAT 19 = 8: System. Wt. println(Cnf(n-1))==0? Poursutz" E(" S to gamed to toil ? 3. 12 - 100 0 1 100 1 10 write a program to multiply a number by 8 without oried to as 1 abead to x7. Ans-Public class pultiple? Public Static Uvid main (String [] args) { int num = 6; System. out. potaton (nume < 3);

(B) Implement a jour program to find the absolute value or total using bituess operators. AND - Public class Absolute Value ? Public Static Void main (String [] 9098) } int num = - 10) int mask = num 7732; int abs = (num + mask) 1 mark; system. wt. print in (abs); waste a program to count the number of 25 (set bits) a privary representation of a number using bitwise operators: Ano - Public class Count Ones & Public Static void main (String [7 9890) & ent num = 15, count =0. while (num 70) & num == (num -1); coun + ++ . (count) ultiga too. maters

a number using withise appropriators.

Ano- Public riges Swap & Public Static void main (String [] angs)? Pn+ x= 23; int result = ((xl 0 xAAAAAAAAA)771)1 C(X+OXEZZZZZZ) < (3); Sustamoutipporton (result);