	Practical -3			
	Fraction			
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	Branch: - Computer Engineering			
	Aim: - study and calculation of Habitead metrics			
	parameters.			
+	Halstead's software Metrics:			
	Halstead's Metrice are included in a			
	number of current commercial tools that count			
	Suftware lines of code By counting the takens			
and the same of th	and determining which are operators and which			
	are operands. the following base measures can			
	be collected:			
	n1 = No. of distinct operators			
	n2 = No. of distinct operands			
<b>P</b> -	NI = Total no. of occurrences of operators			
	N2 = Total no. of occurences of operands.			
	Example:			
	int			
	main (int argc, char **argv)			
•••				
ų	int rad = 12.34;			
	printf( "Area of circle with radius /-fis: /.f \n", rad,			
	area(rad));			
	return 0;			
1				

n1-14 - no. of unique operators
n2-9 - no. of unique operands
N1-30 - Total no. of operators
N2-13 - Total no. of operands.

Program length -: N = N1+N2 N = 30+13  $\therefore N = 43$ 

Program Vocabulary: n=n1+n2

 $\therefore n = 23$ 

Volume: V = N + 1gn V = 43 + 1g = 23V = 194 - 51

Difficulty: 0 = (n1 + N2) / (2 + n2)= (14 + (3 + 1) / (2 + 9)= (182 + 1) / (2 + 9)= (182 + 1) / (2 + 1)

Effort: E = D \* V= 10.11 \* [94.5]= 1966.5

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	Time to implement: T= E/18 = 1966.5/18	
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