a] enler a number: 6 factorial of 6 is 720 running time is: 0.007649 6 odd no. count: 5 even no count: 5

	EXPERIMENT: No. Proctical - 1 Page No. Date	
	Aim: Analysing rave of growth of algorithm and case analysis	
9	With a program to proint factorial of a number	
	import timeit result = 1 i = 1	15.4
	a = int (input ("onter a number:")) while i < = a:	If the second
	result * = i i + = 1 Print (" Factorial OF", a ," is", result) Print (" running time is:", timeit timeit())	
5	Write a program to print odd and even count an array	from
	0 = [1, -3, 89, -6, -8, 3, 44, 5, 66, -90] $even_value = 0$ $odd_value = 0$ for i in a:	
	if $i\%2 = = 0$: even-value $t = 1$	
	else: Odd-Value + = 1 print ("odd no count:", Odd-Value) print ("even no count:", even-Value)	

Teacher's Sign.:

Sundaram

The maximum value is: 89 the ninimum value is: -64 ruming timu: 0.0046658 13 6] the maximum value is: 89 Hutunning time is : 0.013385 the minimum value is: -67 the running time is: 0.0114377

Page No. No. EXPERIMENT: Date c Handling 1D array 1) finding mainium and minimum element into an array a Proport timeit # mothod! By using built-in method max & min X = [1, -9, -7, 6, 8, 44, -56, -67, 89] Print (" the maximum value is: ", max (x)) point ("the minimum value is:", min(x)) posint (" running time:", timeit. timeit()) b import timeit # method 2 x = [1, -9, -7, 6, 8, 44, -56, -67, 89] maximum = x [D] i=1 while ixlen(x): if x[i] > mozimum: maximum = x[i] print ("the maximum value is:", maximum) point (" the running time is: ", time it . time it ()) minimum = x[0]i=1 while i < len(x): if x[i] < minimum: minimum = x ciji+=1 point (" the minimum value is:", minimum) point (" the running time is: ", timeit · timeit ()

Sundaram

of all enter search element: 66
66 is procesent tunning time: 0.01322

enter search element: 66
66 is present
running time: 0.0145011

Page No. EXPERIMENT: Date 2) Searching an element in an array a import timoit # method 1 9=[66,123,0,-45,53,111] found = False search = int (input ('enter search element:")) for data in a or not found: if data = = Search: found = True break if found = = True: print (search," is present") plie: print (search, "is not present")
print ("running time:", timeit timeit ()) b # method 2 Q = [66, 123, 0, -45, 53, 111]Search = int (input("enter search element:")) & = a. count (search) $i = \chi = 0$; print (search, "is not present") elep: port (search, "is present")

port ("running time:", timeit timeit ())

Teacher's Sign.:

(Sundaram)

0] enter search element: 66 search is successful running time: 0.01446105

