## Assignment-S

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Problem Statement / Definition:

Write a python program to Store Second year percentage of Brudent in array. Waite Function for in desending order using a) insertion sort.

b) 6hell 808+. And display Top 6 scores.

Objective: - 11 11 11 11

- To understand Concept of Souting - To Study different Souting method

- To study application of each method.

outcome -

- To coste function for - To use Function wather for only one application.

6/4 and HH Regularments!-1 - programming anguages - python
- operating Gystem - 64 bit fedora.
- programming tool - Jupyter note box Theory:-Inseption Goot! Insertion Goot is a simple sorting algorithm that works similer to the way soot playing Cood in your hands. The array is virtually splits into a sooted and unsorted part. Values from ansorted part Correct position in the Gooted post. Ma for Till to Shell Goot !shell soot mainly variation of insertion good in inception soot we move element only one position ahed many moments are involved the dideas of shell soot is allow exchange of far Hems for a large value of h up teep reducing value of h



Algorithm:
to main etanguage of brockery.
1 Start.
2 intt, gerr # t= total no of Gruden +
3 enter tothe no. of Gudent
4 are [+]
s for i=p i+o/i=/t/
6 arr-append (Floot (input))
7 end for the billion of the
s int Choice, 51=60xt()
9 if chorce==1/
10 61.1 noertion 6007()
1) elif Choice == 2
12 61.6hel1802+C)
13 elif Choice == 3
14 break me man 1
15 ·e/6e
16 point ("Woony Choice")
17 end
17 ! mm = 1 st
* Function for length of array.
1 61007
2 take array Input, i=0
3 append -1 to array
4 for iOhile dost cilli=-10
5 1++
6 endloop 7 return i
B 610P

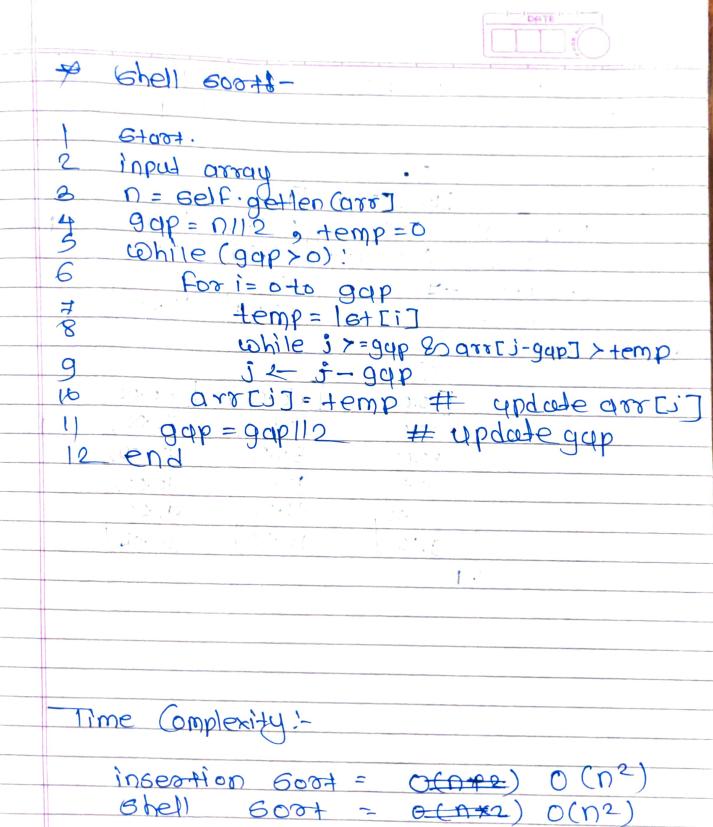
Franction For pointing 64007 f-eest desten (dru) For i=-1 to i=-6
Point arr[i] end + Insertion Goot!de dare i, key, i

loop:-i=1 to n-1

key = arr[i]

j = i-1

loop: (1x = 0 & & a[j] > key) QET [1] = CITE [1] end loop dloop end loop 10



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1				19

Descript	ton ilp	OP		result.
-	,		Output	
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	[1.28,98.64,	1.23,		
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The state of the s	90.82,860	30.0,		
	24 (1.6)	90.32		
	7	98.54	98.64	
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