1.0		
100	WRITE-UP (LAB-3)	(1BM19CS158)
	Bubble sort using time complex	sity:-
	# Include (statio.h)	riden with
	# include (stalib.h)	
	# include <time.h)< th=""><th>111 11 11</th></time.h)<>	111 11 11
	int n;	**** \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	void snap (int * x, int *y)	1 1 1 2 2 1
	int I am /	
	int temp=xx;	1 4
	* 2 = * y .  *y = temp;	N Hone
	3 = remp;	1 1
	vaid bubbleSout (int aver[])	tured is and
	£ " (" of same ,	1.73
	inti,j.	, and the second
		5 av. to 2 1
	Jox (j=0; j(n-i-1; j++)	
	[ ] / avr [ ] ] avv [ ]+1])	<u>/1</u>
	SHap ( laur [j], laur [j+1]);	· (2)
	int main()	
	int main()	6
	int l;	
	double bt;	
	clock t Start, end;	/1
	print ("Enter the number of element	ts of the away \n");
	'scant ( %d', (n);	1 0 1
	int away [n], aways [n];	1
	for (i=0; i(n; i++)	
	away [i] = rand ()% 1000;	
	avery [i] = avery [i].	
	de a monde (17;	

```
(1BM19CS158)
      (DEED OF MAC)
2) Selection sort using time complexity:-
  #include (stdio.h)
  # include (stalib.h)
 # include (time.h)
  void selection (int a [], int n)
    int min, i, j, +;
        t=a[i];
        a [i]=a [min];
        a [min] = t;
  int main ()
    int i;
    clock-t start, end;
  points ("Enter the number of clements of the away)
  scant ("%d", ln);
  ent away [n], away1 [n];
  or (i=0; i(n; i++
```

	Date Pogz	
	(18M19CS158) Pogs	
	away [i] = rand () % 2000;	
1	avay 1[i] = avay [i];	
	print ("%d", array [i]);	
-	7 3 7	
	printy ("In");	
	start = clock();	
	Selection (away 1, n);	
	end = clock ();	
	St = ((double) (end-Start))/CLOCKS_PER_SEC;	
	printf ("Sorted array is: ");	
	Jon (i=0; i(n; i++)	
	• 2	
	print (" "d", array I [i]);	
92		
	print ('In');	
	printf ("In Time taken by Selection Sort: "If In", st);	
	print ('In');	
	retiven 0;	
	3	