EXPERIMENT 16

INSERTION SORT

#include<stdio.h>

#include<conio.h>

int main()

{

int arr[50], size, i, j, k, element, index;

printf("Enter Array Size: ");

scanf("%d", &size);

printf("Enter %d Array Elements: ", size);

for(i=0; i<size; i++)

scanf("%d", &arr[i]);

for(i=1; i<size; i++)

{

element = arr[i];

if(element<arr[i-1])

{

for(j=0; j<=i; j++)

{

if(element<arr[j])

{

index = j;

for(k=i; k>j; k--)

arr[k] = arr[k-1];

break;

}

}

}

else

continue;

arr[index] = element;

}

printf("\nSorted Array:\n");

for(i=0; i<size; i++)

printf("%d ", arr[i]);

getch();

return 0;

}

OUTPUT:

