**DAY 30**

**CODE:**

#include<stdio.h>

#include<stdlib.h>

void display(int arr[], int size)

{

int i;

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

{

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

}

printf("\n");

}

void bSort(int arr[], int n)

{

int i, j,k=1;

for(i=0;i<n-1;i++)

{

for (j=0; j <n-i-1; j++)

if (arr[j] > arr[j + 1])

{

int temp = arr[j];

arr[j]=arr[j+1];

arr[j+1]=temp;

}

}

printf("\n\nThe sorted array is: ");

display(arr,n);

printf("\n\nThe median of the sorted elements is: %d",arr[n/2]);

}

void main()

{

int r,c, i,j,k=0;

int \* arr;

printf("\nEnter the size of the array: ");

scanf("%d",&r);

printf("\nEnter the column size: ");

scanf("%d",&c);

arr= (int \*)malloc(r\*c\*sizeof(int));

printf("\nEnter the array elements (in Ascending Order): \n");

int nums[r][c];

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

{

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

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

}

printf("\n\nThe matrix is: \n");

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

{

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

{

printf("%d ",nums[i][j]);

arr[k]=nums[i][j];

k++;

}

printf("\n");

}

bSort(arr,r\*c);

}

**OUTPUT:**



