**Create an array of N elements to store the marks obtained in a semester. Sort the array in ascending order. Implement binary search to verify the position of the highest, lowest and average marks.**

**Code:**

#include <stdio.h>

int main()

{

int i, low, high, mid, n, ele, array[100];

printf("Enter number of Marks: ");

scanf("%d",&n);

printf("Enter %d marks in ascending order: ", n);

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

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

printf("Enter mark to find: ");

scanf("%d", &ele);

low = 0;

high = n - 1;

mid = (low+high)/2;

while (low <= high) {

if(array[mid] < ele)

low = mid + 1;

else if (array[mid] == ele) {

printf("%d found at location %d", ele, mid+1);

break;

}

else

high = mid - 1;

mid = (low + high)/2;

}

if(low > high)

printf("Not found! %d isn't present in the list", ele);

printf("\nHighest mark: %d",array[4]);

printf("\nLowest mark: %d",array[0]);

float avg=0;

for(int i=0;i<n;i++)

avg=avg+array[i];

printf("\nAverage: %.2f", avg/n);

return 0;

}

**Output:**

