Report No: **01**

Report Name: WAP to insert in ascending order.

Code:

```
#include<iostream>
using namespace std;

int main(){
   int size, i;
   cout << "Enter size of an array: ";
   cin >> size;
   int myArray[size];

   for(i = 0; i < size; i++){
      cout << "Enter " << (i+1) << " element: ";
      cin >> myArray[i];
   }

   for(i = 1; i < size; i++){
      int temp = myArray[i];
      int j = i - 1;

      while (j >= 0 && myArray[j] > temp)
      {
         myArray[j+1] = myArray[j];
         j--;
      }
      myArray[j+1] = temp;
   }

   cout << "Inseration sort ascending order: ";
   for(i = 0; i < size; i++){
      cout << myArray[i] << " ";
   }
}
```

Input and Output:

```
Enter size of an array: 5
Enter 1 element: 9
Enter 2 element: 6
Enter 3 element: 71
Enter 4 element: 26
Enter 5 element: 8
Inseration sort ascending order: 6 8 9 26 71
```

Report No: **02**

Report Name: write a cpp program that can input an integer number and then it can separate each and every digit of that number into an array. after that print that array in descending order.

Code:

```
#include<iostream>
#include<cmath>
using namespace std;

int main(){
   int num, size, i;
   cout << "Enter integer number: ";
   cin >> num;

   size = ceil(log10(num));
   int myArray[size];

   for(i = 0; i < size; i++){
      myArray[i] = num % 10;
      num = num / 10;
   }

   for(i = 1; i < size; i++){
      int temp = myArray[i];
      int j = i - 1;

      while (j >= 0 && myArray[j] < temp)
      {
         myArray[j+1] = myArray[j];
         j--;
      }
      myArray[j+1] = temp;
   }

   cout << "Inseration sort descending order: ";
   for(i = 0; i < size; i++){
      cout << myArray[i] << " ";
   }
}
```

Input and Output:

```
Enter integer number: 65987
Inseration sort descending order: 9 8 7 6 5
```