**package** Question5;

/\*

\* Find the maximum difference between two elements in an array such that

larger element appears after the smaller number (Approach-3)

\*/

**class** MaximumDiffrence

{

**int** maxDiff(**int** arr[], **int** arr\_size)

{

**int** max\_diff = arr[1] - arr[0];

**int** min\_element = arr[0];

**int** i;

**for** (i = 1; i < arr\_size; i++)

{

**if** (arr[i] - min\_element > max\_diff)

max\_diff = arr[i] - min\_element;

**if** (arr[i] < min\_element)

min\_element = arr[i];

}

**return** max\_diff;

}

**public** **static** **void** main(String[] args)

{

MaximumDiffrence maxdif = **new** MaximumDiffrence();

**int** arr[] = {1, 2, 90, 10, 110};

**int** size = arr.length;

System.***out***.println("MaximumDifference is " +

maxdif.maxDiff(arr, size));

}

}