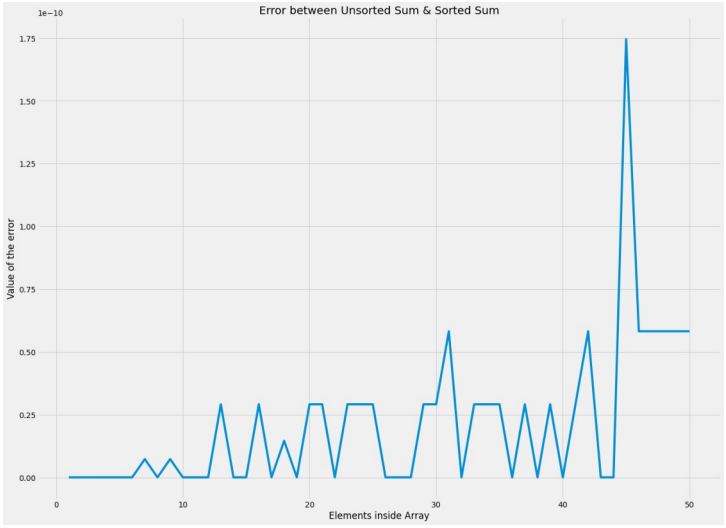
Sol 2 : -

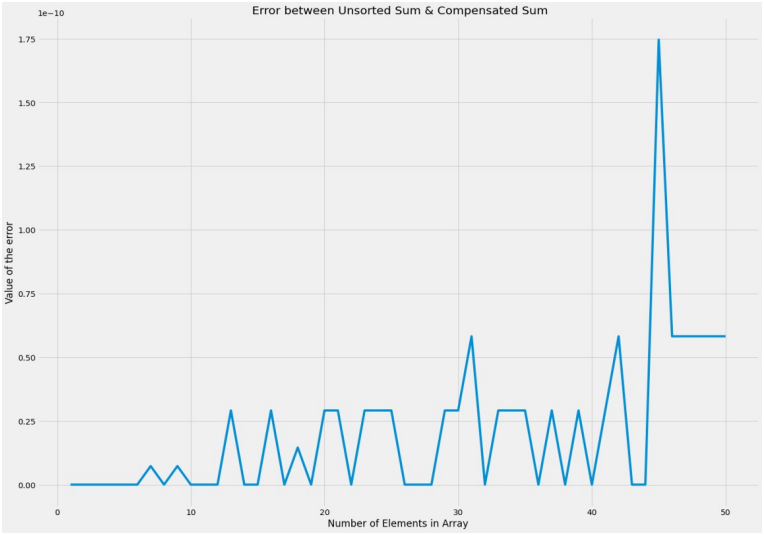
output :

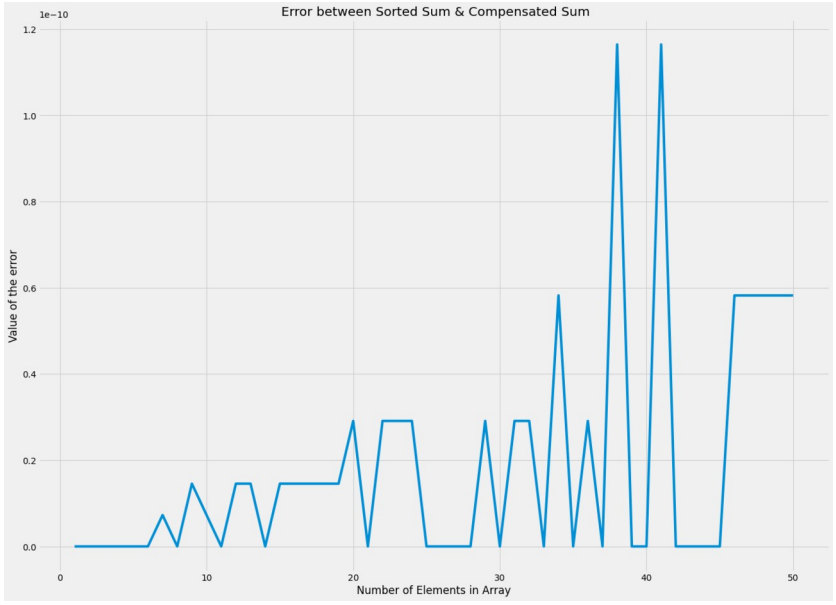
```
compound interest calculated by normal formula is = 3668.2604841437646
compound interest calculated by Maclaurin series for log (1 + x) is = 3668.260484138821
compound interest calculated using log(1 + x) = x log(1 + x))/((1 + x) -1) is = 3668.260484138821
```

So compound interest calculated by formula gives erroneous solution in floating points, whereas Maclaurin based calculation and Logarithmic function-based calculation gives the same and precise output.

Soution 1







From the above diagrams we can see that the error between “Unsorted Sum & Sorted Sum” and “Compensated Sum and Unsorted Sum” are numerically equivalent , whereas “Sorted Sum &Compensated Sum” is different.