60004210210 Amartya Mishra COMPS- & C31 AA Experiment 1 (c) Aim: Amortized analysis (Potential method) Theory: The potential method in a technique un amortized analysis that uses a potential function to account for difference between the ochial cost 4 the amortized cost of a Operation. A potential function denoted as is defined to supresent the accumelated potential or stored energy in the Data structure. The change un potential sp due to an operation is added to the actual out to obtain amortized cost. For dynamic table of = (a × no oftimes) - Size of array For Binary counter: \$ = No. of set Bits un given counter Amortized cost using potential method ci = ci + D 0; Conclusion: we performed Amortized analysis using Potential, Method, On Binary, Ounter.

AA – Experiment 1(C)

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COMPS C31

Code:

```
#include
#
```

Output: