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BRANCH – BTECH CSE

SEC = 13 A

UID -20BCS2761

Q Write a program to calculate the number of items in a queue

Algorithms

- Enqueue adds an element to the end of the Queue.
- The capacity of a Queue is the number of elements the Queue can hold.
- As elements are added to a Queue, the capacity is automatically increased as required by reallocating the internal array.
- Queue accepts null as a valid value for reference types and allows duplicate elements.

Code in Text Form -

```
#include <iostream>
#include <queue>
using namespace std;
int main(){
   queue<int> Queue;
   Queue.push(10);
   Queue.push(20);
   Queue.push(30);
   Queue.push(40);
   cout<<"size of Queue is : "<<Queue.size();
   return 0;}</pre>
```

Code In Compiler -







OUTPUT

```
PROBLEMS OUTPUT TERMINAL

cd "/Users/rajdeepjaiswal/Desktop/Codes/practices/" && g++ raj.cpp -o raj && "/Users/rajdeepjaiswal/Desktop/Codes/practices/" a& g++ raj.cpp -o raj && "/Users/rajdeepjaiswal/Desktop/Codes/practices/" && g++ raj.cpp -o raj && "/Users/rajdeepjaiswal/Desktop/Codes/practices/" && g++ raj.cpp -o raj && "/Users/rajdeepjaiswal/Desktop/Codes/practices/" raj size of Queue is : 

rajdeepjaiswal@Rajdeeps-Air practices %

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