19103277 B9

Saurav Sharma

Data Structure

Tut-5

1)

x=1 count=0

x=1 count=1

x=1.1 count=0.

2)

2 1

3)

```
#include <bits/stdc++.h>
using namespace std;

template <class T>
class Calculator
{
  private:
    T num1, num2;

  public:
  Calculator (T n1, T n2)
  {
    num1 = n1;
    num2 = n2;
  }
  void displayResult ()
  {
cout << "Numbers are" << num1 << "and" <<
    num2 << endl;
```

```
cout << " Add is " << add () << endl;
cout << " subtract is " << subtract() << endl;
cout << " Product is " << multiply() << endl;
cout << " Division is " << divide() << endl;

};

T add ()
{
   return num1 + num2; }
};
T subtract()
{ return num1 - num2; }
T multiply ()
{ return (num1 * num2); }
T divide ()
 { return (num1 / num2); }.
};
int main ()
{
   Calculator <int> intCalc (2, 1);
   Calculator < float> floatCalc (2.4, 1.2);

cout << " Int results : " << endl;
   int Calc - disPlay Result ();

cout << " endl << " float results " << endl;
   float Calc. display Result ();
   return ()
   };
```

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6 4 Q will be reversed

5
```
#include<bits/stdc++.h>
using namespace std;

int main()
{
  int sum = 0;
  queue<int> myqueue;
  myqueue.push(1);
  myqueue.push(8);
  myqueue.push(3);
  myqueue.push(6);
  myqueue.push(2);

  // Queue is 1 8 3 6 2

while(!myqueue.empty())
  {
  sum = sum + myqueue.front();
    myqueue.pop();

  }

  return 0;

}
```