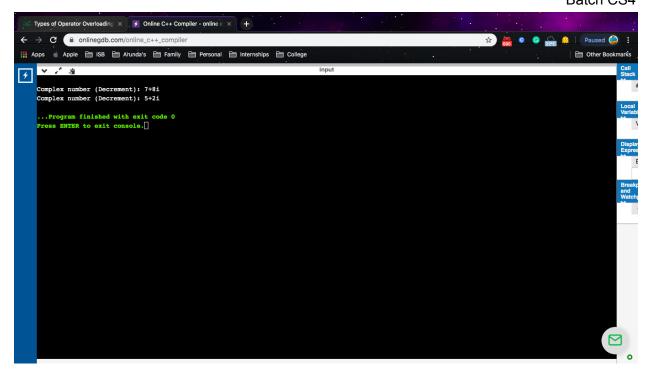
Unary Operator Overloading

```
#include <iostream>
using namespace std;
class Complex
  public:
  int real, imag;
  Complex(int r, int i)
  {
     this->real = r;
     this->imag = i;
  }
  void operator-()
     real--;
     imag--;
    cout << "\nComplex number (Decrement): " << real << "+" << imag << "i";
  }
};
int main()
  Complex c1(8, 9);
  Complex c2(6,3);
  -c1;
  -c2;
  return 0;
}
```

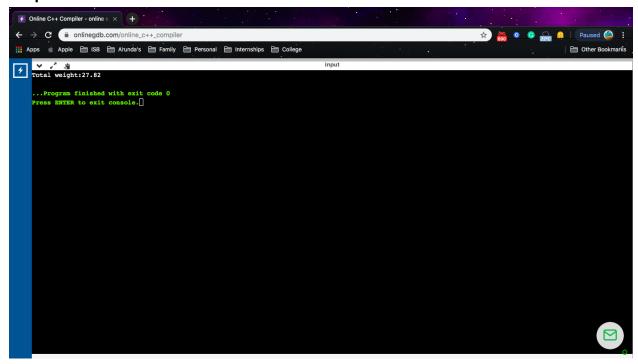


Binary Operator Overloading

```
#include<iostream>
using namespace std;
class Weight
{
    public:
    int kilograms,grams;
    Weight()
    {
        this->kilograms=0;
        this->grams=0;
    }
    Weight(int kg,int g)
    {
        this->kilograms=kg;
        this->grams=g;
    }
    void printData()
    {
        cout<<"Kg:"<<kilograms<<"g:"<<grams<endl;</pre>
```

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Output

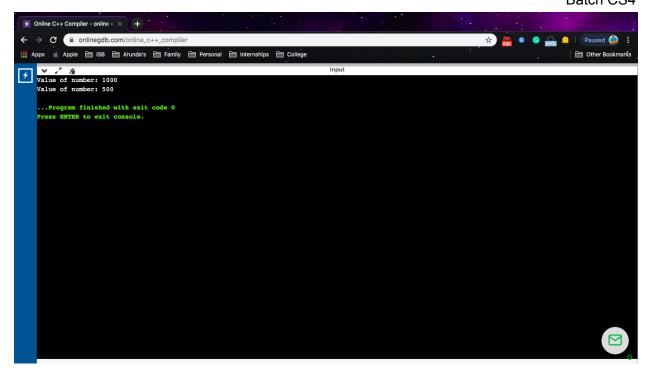


Friend Function Overriding

#include <iostream>

```
using namespace std;
class Number
  private:
  int a;
  public:
  void getNum(int x);
  friend void printNum(Number no);
};
void Number::getNum(int x)
  a=x;
void printNum(Number no)
  cout << "Value of number: " << no.a;</pre>
int main()
  Number nObj,nObj1;
  nObj.getNum(1000);
  printNum(nObj);
  cout<<"\n";
  nObj1.getNum(500);
  printNum(nObj1);
  return 0;
}
```

Output

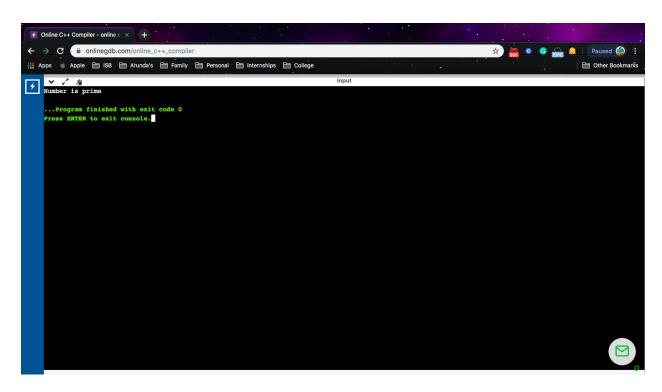


Member Function Overriding

```
#include<iostream>
using namespace std;
class Number
{
  public:
  void show()
    cout<<"Number";
  }
};
class Prime: public Number
  public:
  void show()
    cout<<"Number is prime";</pre>
  }
};
int main(void)
```

```
Prime p = Prime();
  p.show();
  return 0;
}
```

Output

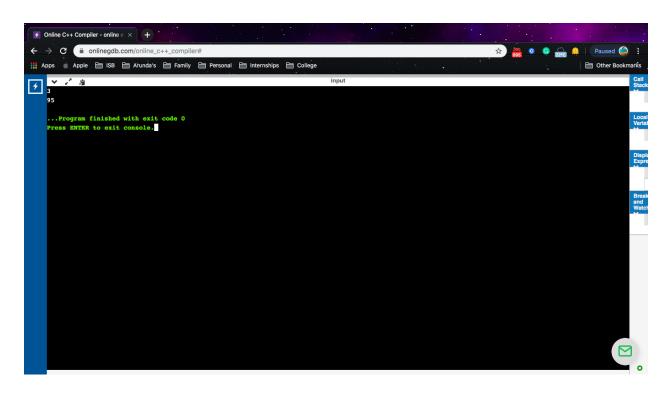


Member Function Overloading

```
#include<iostream>
using namespace std;
int sub(int x,int y)
{
    cout<<x-y;
}
int sub(int x,int y,int z)
{
    cout<<x+y+z;
}
int main()
{
    sub(8,5);</pre>
```

```
cout<<"\n";
sub(10,15,70);
}
```

Output



Friend function overriding

```
#include<iostream>
using namespace std;
class complex
{
    float real,imag;
    public:
    complex()
    {
       real=imag=0;
    }
    complex(float r,float i)
    {
       real = r;
       imag = i;
}
```

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```
friend complex operator - (complex c)
     c.real=-c.real;
     c.imag=-c.imag;
     return c;
  }
  void display()
  {
     cout<<"\nReal:"<<real;
     cout<<"\nImag:"<<imag;</pre>
  }
};
int main()
  complex c1(1,2),c2;
  c1.display;
  c2=-c1;
  cout<<"\nAfter negation\n";
  c2.display();
}
```