AKSHAT SINGH RA2111032010021

bloat side; void arual)

J;

cin >> side;

cout << "Enter side: "i

cout «sidi * sidi « endl;

```
1. Create a class named Us Area which has function
   named area (), used to calculate the area!
   Create appropriate derived clauses and implement late binding in
   to find the area of rectangle, triangle and circle.
1. # include <iostream>
  # define P1 3.14159
   using namuspace std;
  class ClsArea
  public:
       virtual void area()=0;
  class Rectangle: public
  CISAREA
  public:
      float length, breadth;
      void anal)
          cout « "Enter length & breadth : ";
          cin >> length >> breadth;
          cout « length * breadth « end);
 class square: public
  Cls Area
```

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no

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```
HIDWIZ TAHEN
class circle: public
Us Area
1
    front radius;
    void area ()
    neared which was
 cout «"Enter Radius: ";
tol brome cin >> radius; usals burers storegood atoxis
   cout << P1 * radius * radius << and;
};
int main ()
1
    UsArea * ptr;
    pts = new Rectangle;
    ptr->areal);
    ptr = new square;
    ptr -> area ();
                                William & Driverston
    ptr = new circle;
     ptr-> areaci;
     return o;
}
                                      Way bier
              Attorned & Affind Printed 22402
```

```
# include <iostream>
# include (sstream)
#finclude <cmath>
 using nomespace std;
class complex of
        private: real, imag;
       public:
       Complex() {
             real = imag = 0;
       complex (intr, inti) {
             real= vi
            imag=i;
       string to string () 1
              stringstream ss;
                  (tmaq > = 0)
                    5,5 << "(" << real <<"+" << imag << "i)";
                   55 << "(" << real <<" - " << abs (imag) << "i)";
              return ss. stru;
                operator + (complex c2) {
       Complex
             complex ret;
             ret. real= real + c2, real;
             retimag = imag + c2.imag;
             return ret;
        z
3;
```

write a C++ program to perform complex number

addition (+) using operator overloading.

int main () { int main() {

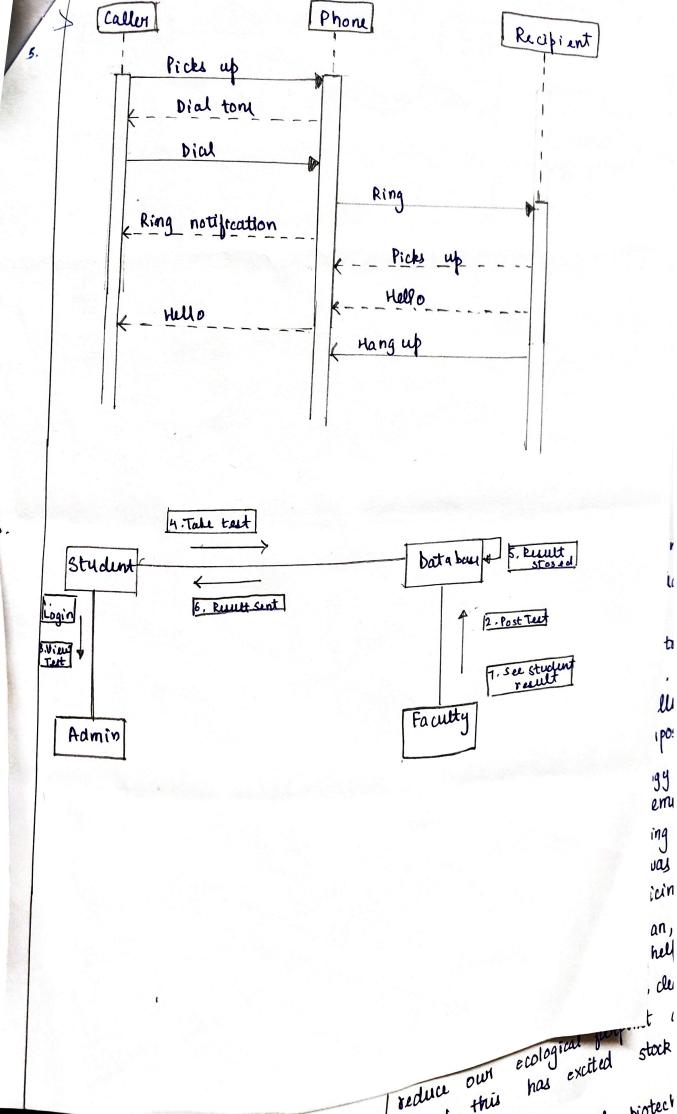
complex c1 (8, -5), c2(2,3); complex res = cl +c2; sotupio promise in monthly cout « res. to_string(); KINDORFELL WARRING IN Chieffeel my mill Input Kitherins dullant c1 (8,-5), c2(2,3) Output LANDING WILL (10,-21)

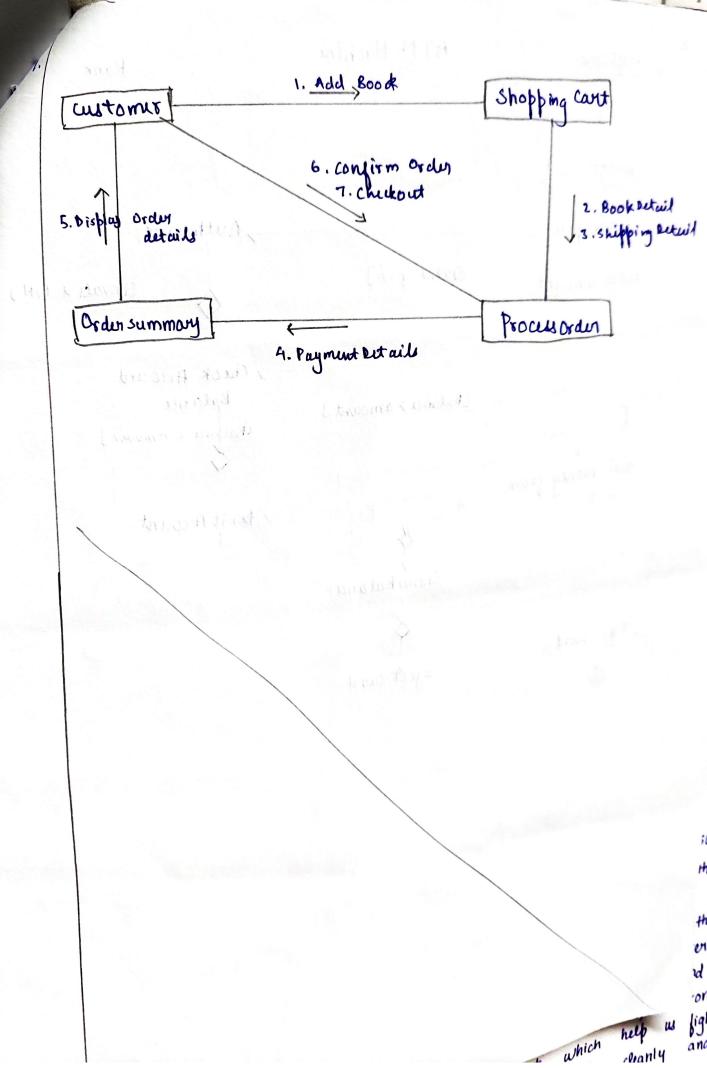
```
#include Ciostreams
wing namupau, std;
clous Shape of
        float width, height;
        public:
         set dimension (flootw, height h) {
                    width = w;
                     height = h; }
};
class Rectangle; public shape 1
      public?
         ploat area () {
              return ( width * height); }
int main() {
     int height, width;
     cout «"Enter height and width;
     cin>> height >> width;
     Rectangle rectangle;
      rectangle. Set dimension Cheight, width);
     cout (("Area" << rectangliania() << endl;
```

Tall of this

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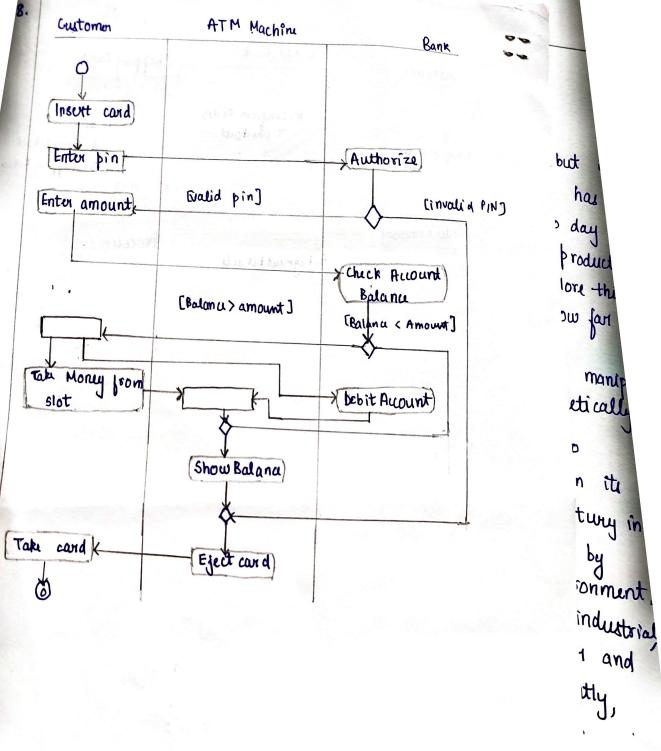
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