OOP LAB 7 T. DAMAN 2005839

```
Q1.//T.DAMAN
#include<iostream>
using namespace std;
class comp
   int real,imag,real2,imag2;
   comp()
       real=0;
       real2=0;
        imag=0;
       imag2=0;
   comp(int real1)
       real=real1;
        imag=real1;
    comp(int real3,int imag3)
        real2=real3;
        imag2=imag3;
 friend void complexproduct(comp c ,comp c2);
void complexproduct(comp c ,comp c2)
        int x=c.real*c2.real2+(c.imag*c2.imag2*(-1));
        int y=(c.real*c2.imag2)+(c.imag*c2.real2);
       cout<<"the resultant is : "<<x<<"+"<<y<<"i";</pre>
int main()
   int real, real2, imag2;
   cout<<"ENTER REAL AND IMAGINARY VALUE FOR NUMBER 1: ";</pre>
   cout<<"ENTER REAL VALUE FOR NUMBER 2: ";</pre>
   cin>>real2;
   cout<<"ENTER IMAGINARY VALUE FOR NUMBER 2: ";</pre>
   cin>>imag2;
   comp c(real);
   comp c2(real2,imag2);
   comp c3;
 complexproduct(c,c2);
```

Output:-

ENTER REAL AND IMAGINARY VALUE FOR NUMBER 1: 12 ENTER REAL VALUE FOR NUMBER 2: 13 ENTER IMAGINARY VALUE FOR NUMBER 2: 14 the resultant is : -12+324i

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Q2.
```

```
//T.DAMAN
//2005839
//q2
#include<iostream>
using namespace std;
class fibo
```

```
private:
unsigned long int f0,f1,fib;
public:
fibo()
f0=0;
f1=1;
fib=f0+f1;
fibo (fibo &ptr)
f0=ptr.f0;
f1=ptr.f1;
fib=ptr.fib;
void increment()
f0=f1;
f1=fib;
fib=f0+f1;
void display()
cout << fib <<" ";
}; //end of class construction
int main()
   cout<<"enter the no. of terms you want "<<endl;</pre>
fibo number;
for (int i=0; i<=n;i++)
number.display();
number.increment();
return 0;
Output:-
```

enter the no. of terms you want

8

0 1 1 2 3 5 8 13 21 34 55

Q3.

```
//T.DAMAN
//2005839
//q3
#include<iostream>
using namespace std;
class A
{
    int a;
    int b;
    int c;
    public:
    void get()
    {int x,y,z;
    cout<<"enter the numbers:"<<endl;
    cin>xx>yy>z;
    a=x;
    b=y;
    c=z;
    }
friend int greatest( A);
};
int greatest(A d )
{
    if(d.a>d.b)
```

```
if(d.b>d.c)
             return d.a;
        else if(d.c>d.a)
    else if(d.a<d.b)</pre>
        else if(d.c>d.b)
int main(){
    A d;
    d.get();
    cout<<"greatest is :"<<greatest(d);</pre>
Output:-
enter the numbers:
13 21 10
greatest is:21
Q4.
//T.DAMAN
//q4
#include<iostream>
using namespace std;
class A
    int b;
    void get()
   {int x,y;
cout<<"enter the numbers:"<<endl;</pre>
    b=y;
friend int greatest( A);
};
int greatest(A c )
    if(c.a>c.b)
int main(){
```

Output:-

c.get();

cout<<"greatest is :"<<greatest(c);
return 0;</pre>

```
enter the numbers:
34 56
greatest is :56
```

```
Q5.
 //T.DAMAN
//q5
#include<iostream>
 using namespace std;
 class DAMAN
          int data;
    void setvalue()
     {int value;
    cout<<"entre the value:"<<endl;</pre>
         cin>>value;
     friend void add(DAMAN1,DAMAN);
};
class DAMAN1{
int data;
blic:
         cout<<"entre the value:"<<endl;</pre>
         data=value;
     friend void add(DAMAN1,DAMAN);
};
void add (DAMAN1 obj1, DAMAN obj2 )
cout<<"sum="<<obj1.data+obj2.data;
int main(){
DAMAN1 X; DAMAN A;
X.setvalue();
A.setvalue();
 add(X,A);
 return 0;
Output:-
entre the value:
entre the value:
14
```

sum=27