PART B

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14. (a) Write a C++ program to perform ( ) overloading. #include<iostream> using namespace std; class loc { int longitude, latitude; public: loc ( ) {} loc(int lg, int lt) { longitude = lg; latitude = lt; } void show ()
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cout<< longitude<<" ";</pre>
cout << latitude << "\n ";
loc operator+ (loc op2);
loc operator()( int i, int j);
};
// overload () for loc
loc loc::operator()(int i, int j)
longitude = i;
latitude = i;
return *this;
// overload + for loc
loc loc::operator+(loc op2)
loc temp;
temp.longitude= op2.longitude+longitude;
temp.latitude= op2.latitude+latitude;
return temp;
int main()
loc ob1(10,20), ob2(1,1);
ob1.show();
ob1(7,8);
ob1.show();
ob1=ob2+ob1(10,10);
ob1.show();
return 0;
14. (b) Write a C++ program to perform -> overloading.
#include<iostream>
using namespace std;
class myclass{
public:
int i;
myclass *operator->() {return this;}
};
int main()
```

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myclass ob;
ob->i=10;
cout<<ob.i <<" "<<ob->i;
return 0;
}
```

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15.) Sorting using Genric classes
#include<iostream>
#include<cstdlib>
using namespace std;
const int SIZE=10;
template<class atype>class sort
public: atype a[SIZE];
atype &operator[](int i)
if(i<0||i>SIZE-1)
cout<<"\nIndex value of ";</pre>
cout<<i<" is out-of-bonds.\n";
exit(1);
return a[i];
sort(){ }
void read(int z)
for(int i=0;i<z;i++)
cin>>a[i];
void disp(int z)
for(int i=0;i< z;i++)
cout<<a[i]<<" ";
cout << "\n";
template<class X> void bubble(X *items,int count)
register int a,b;
Xt;
for(a=1;a<count;a++)</pre>
for(b=count-1;b>=a;b--)
if(items[b-1]>items[b])
t=items[b-1];
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items[b-1]=items[b];
items[b]=t;
int main()
sort <int> intob;
sort <double> doubleob;
int i,m,n;
cout<<"\nEnter the size of integer array: -\n";
cin>>n;
cout<<"\nEnter the size of double array: -\n";
cin>>m;
intob[n-1]=0;
doubleob[m-1]=0;
cout<<"\nEnter the integer array:-\n";
intob.read(n);
cout << "\nEnter the double array:-\n";
doubleob.read(m);
cout<<"\nUnsorted integer array is:-\n";</pre>
intob.disp(n);
cout<<"\nUnsorted double array is:-\n";</pre>
doubleob.disp(m);
intob.bubble(intob.a,n);
doubleob.bubble(doubleob.a,m);
cout<<"\nSorted integer array is:-\n";</pre>
intob.disp(n);
cout<<"\nSorted double array is:-\n";
doubleob.disp(m);
return 0;
}
```