Shri Vile Parle Kelavani Mandal's

INSTITUTE OF TECHNOLOGY

DHULE (M.S.)

DEPARMENT OF COMPUTER ENGINEERING

Subject : Object Oriented Programming Lab

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Class : S.Y.Comp **Batch : S3** **Division: B**

Expt. No. :05 **Date : 04/09/2024**

Title : To implement program on Operator Overloading

Remark

Signature

Code:

Binary Operator Overloading :

```
#include<iostream>
using namespace std;
class A
{
int x;
public:
A(int i)
{
x=i;
}
void operator+(A);
void display();
};

void A :: operator+(A a)
{
```

```
int m=x+a.x;
cout<<"The result of the addition of two objects is : "<<m;
}
int main()
{
A a1(5);
A a2(4);
a1+a2;
return 0;
}
```

Unary Operator Overloading :

```
#include <iostream>
using namespace std;

class Distance
{
private:
int feet;
int inches;

public:
Distance() : feet(0), inches(0) {}

Distance(int f, int i) : feet(f), inches(i) {}

void displayDistance()
{
cout << "F: " << feet << " I: " << inches << endl;
```

```
}

Distance operator- ()
{
return Distance(-feet, -inches);
}
};

int main()
{
Distance D1(11, 10), D2(-5, 11);

D1 = -D1;
D1.displayDistance();

D2 = -D2;
D2.displayDistance();

return 0;
}
```

Output:

Binary Operator Overloading

```
The result of the addition of two objects is : 9

=== Code Execution Successful ===
```

Unary Operator Overloading

```
F: -11 I: -10
F: 5 I: -11


=== Code Execution Successful ===
```