

6.3) Develop a case study on Overloading Operators and Overloading Functions. (150 Words)

Operator overloading Program:

```
#include<iostream>

using namespace std;

class date{

private:

    int dd,mm,yy;

public:

    void setdate()

    {

        cout<<"enter day month and year"<<endl;

        cin>>dd>>mm>>yy;

    }

    void show()

    {

        cout<<dd<<"-"<<mm<<"-"<<yy<<endl;

    }

    void operator++()

    {

        dd++;

        if(mm==1 || mm==3 || mm==5 || mm==7 || mm==8 || mm==10 || mm==12)

        {

            if(dd>31)
```

```

        {
            dd=1;
            mm++;
            if(mm>12)
            {
                mm=1;
                yy++;
            }
        }
    }
else if(mm==4 || mm==6 || mm==9 || mm==11)
{
    if(dd>30)
    {
        dd=1;
        mm++;
    }
}
else
{
    if((yy%4==0&&yy%100!=0) || yy%400==0)
    {
        if(dd>29)
        {

```

```

        dd=1;
        mm++;
    }

}

else
{
    if(dd>28)
    {
        dd=1;
        mm++;
    }
}

}

};


int main()
{
    date d;
    d.setdate();
    cout<<"present date"<<endl;
    d.show();
    ++d;
    cout<<"next date"<<endl;
    d.show();
}

```

```
return 0;
```

```
}
```

Output:

 C:\Users\admin\Desktop\currentdate.exe

```
enter day month and year
```

```
1
```

```
12
```

```
2002
```

```
present date
```

```
1-12-2002
```

```
next date
```

```
2-12-2002
```

```
-----
```

```
Process exited after 7.781 seconds with return value 0
```

```
Press any key to continue . . .
```

Function overloading program:

```
#include<iostream>

using namespace std;

class date{

    public:

        void show(int dd,int mm,int yy)

        {

            cout<<"current date";

            cout<<dd<<"-"<<mm<<"-"<<yy<<endl;

        }

        void show(int dd,string mm,int yy)

        {

            cout<<"current date";

            cout<<dd<<"-"<<mm<<"-"<<yy<<endl;

        }

};

int main()

{

    date a;


    a.show(1,12,2002);

    a.show(1,"december",2002);

    return 0;

}
```

Output:

 C:\Users\admin\Desktop\currentdate2.exe

```
current date1-12-2002
```

```
current date1-december-2002
```

```
-----
```

```
Process exited after 0.04122 seconds with return value 0
```

```
Press any key to continue . . .
```