91. Wap to create Hierarchical Structure. Number class is base data member int X and two derived class Perfect & Strong. It will check corresponding whether no is perfect or Strong. But thing is one input will take and that single input will check both.

```
#include <iostream>
using namespace std;
class Number
protected:
   int x;
public:
   void getdata()
       cout << "\n Enter a Number:";
       cin >> x;
class Perfect: public Number
public:
   void check_perfect()
       int i, div, sum = 0;
       getdata();
       for (i = 1; i < n; i++)
          div = n % i;
          if (div == 0)
              sum = sum + i;
       if (sum == n)
          cout << "\n " << x << " is a perfect number.";
       else
          cout << "\n " << x << " is not a perfect number.";
class Strong: public Number
public:
   void check_strong()
       getdata();
       int temp = x_i
       int i, sum = 0;
       while (x)
          int num = 2 % 10;
          int fact = 1;
          for (i = num; i > 0; i--)
```

```
fact = fact * i;

}

sum += fact;

x /= 10;

}

if (sum == temp)

{

cout << temp << " is a Strong Number";

}

else

fout << temp << " is not a Strong Number";

}

}

int main()

{

Perfect obj1;

Strong obj;

obj1.check_perfect();

obj.check_strong();

veturn 0;

}
```

```
Enter a Number:6
6 is a perfect number.
Enter a Number:154
154 is not a Strong Number
```

92. Wap to create One Base class Father data member frame. And Son class derived from Father dada member sname and Grandson derived from Son data member grame. Use appropriate function that Grandson will display all name by it concatenating.

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

class Fname
{

bublic:
    string fname1, fname2;
    Fname()
    {
        cout << "Enter Father's Name:" << endl;
        cin >> fname1;
        cin >> fname2;
    }
};

class Sname
{
```

```
public:
   string snamel;
   Sname()
      cout << "Enter Son's Name:" << endl;
      cin >> snamel;
3;
class Gname: public Fname, public Sname
   string gnamel;
public:
   Gname()
      cout < "Enter Grandson's Name:" < endl;
      cin >> gname1;
      cout < "Grandson's Name is: " << fname! < " " << sname! << " " << gname! << " " << fname2;
3;
int main()
   Gname ci
   return O;
```

```
Enter Father's Name:
George
Jones
Enter Son's Name:
Trevor
Enter Grandson's Name:
Michael
Grandson's Name is: George Trevor Michael Jones
```