

Q. Write an QOP to calculate factorial of the number given by the user make sure that your class should have seperate member functions for intializing, inputting, calculating and displaying

```
class Fact
{
    int n;
    int f;
public:
    void init();
    void get();
    void calculate();
    void show();
};

void Fact::init()
{
    f=1;
}

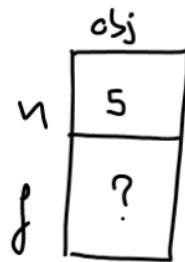
void Fact::get()
{
    cout<<"Enter no:";
    cin>>n;
}

void Fact::calculate()
{
    for(int i=1; i<=n; i++)
    {
        f=f*i;
    }
}
```

```

void Fact::show()
{
    cout << "No is " << n;
    cout << "Its fact is " << f;
}

```



```

int main()
{
    clrscr();
    ✓ Fact obj;
    obj.init();
    ✓ obj.get();
    ✓ obj.calculate();
    ✓ obj.show();
    getch();
    return 0;
}

```

What is a Constructor?

=====

In C++ constructors are special member functions of a class having the following impt features :

1. They have same name as that of the class.
2. They don't have any return type, **not even void**.
3. They are automatically called by the C++ compiler AS SOON AS the object of the class gets created.

```
class Fact
{
    int n;
    int f;
public:
    Fact();
    void get();
    void calculate();
    void show();
};

Fact::Fact()
{
    f = 1;
}

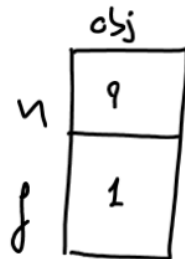
void Fact::get()
{
    cout << "Enter no: ";
    cin >> n;
}

void Fact::calculate()
{
    for (int i = 1; i <= n; i++)
    {
        f = f * i;
    }
}
```

```

void Fact::show( )
{
    cout << "No is " << n;
    cout << "Its fact is " << f;
}

```



```

int main( )
{
    clrscr();
    ✓ Fact obj;

```

```

    ✓ obj.get();
    ✓ obj.calculate();
    ✓ obj.show();
    getch();
    return 0;
}

```

Next class is tomorrow at 1:15 pm