

**11.a Course Name: Typescript****Module Name: Extending Interfaces**

Declare a productList interface which extends properties from two other declared interfaces like Category, Product as well as implementation to create a variable of this interface type.

Aim: To declare a productList interface which extends properties from two other declared interfaces like Category

Description:

An interface can be extended from an already existing one using the extends keyword.

In the code below, extend the productList interface from both the Category interface and Product interface.

Example:

```
interface Category{
    categoryName:string;
}
interface Product{
    productName:string;
    productid:number;
}
interface productList extends Category,Product{
    list:['Samsung','Motorola','LG']
}
```

Program:

```
interface Category {
    categoryName: string;
}
interface Product {
    productName: string;
    productId: number;
}
interface ProductList extends Category, Product {
    list: Array<string>;
}
const productDetails: ProductList = {
    categoryName: 'Gadget',
    productName: 'Mobile',
    productId: 1234,
    list: ['Samsung', 'Motorola', 'LG']
};
const listProduct = productDetails.list;
const pname: string = productDetails.productName;
console.log('Product Name is ' + pname);
console.log('Product List is ' + listProduct);
```

Output:

```
C:\Users\durga\OneDrive\Desktop\New folder\5th sem\typescript>ts-node 11a.ts
Product Name is Mobile
Product List is Samsung,Motorola,LG
```