

GST Calculator

Recently the tax structure in India has undergone transformation with the implementation of **Goods & Services Tax (GST)**.

Now, all commodities and services fall under 4 broad GST slabs. These are:

1. **0%** - No GST is applied on this commodity.
2. **5%** - A GST of 5% is applied on top of this commodity.
3. **18%** - A GST of 18% is applied on top of this commodity.
4. **28%** - A GST of 28% is applied on top of this commodity.

Here is how the following product categories fall under GST slabs:

- **Food-grains** (Rice, Wheat, Dal) – **0%**
- **Furniture** (Table, Sofa, Chair) – **5%**
- **Electronics** (Mobile, TV, Tablet) – **18%**
- **Cosmetics** (Cream, Perfume, Lotion) – **28%**

You have to create a simple console application, which calculates the GST and final selling price for a given commodity.

Here are some sample inputs and outputs for your reference:

INPUT	OUTPUT	
<Unit> <Commodity> <Initial Unit price>	GST applicable per unit	Final Price
1 Rice 100	0	100
1 Sofa 20000	1000	21000
1 Perfume 200	56	256
2 Mobile 5000	900	11800

Use the language and IDE of your choice.

Our expectations:

1. Clean, readable code with meaningful variable names and proper indentation.
2. Modular code with relevant classes and objects.
3. No “hard coding” or “magic numbers” in the logic. If the GST slabs change tomorrow, your code should be easy to adapt to the new changes.
4. No “over engineering”. Do not create unnecessary classes / objects / methods, which are not relevant to the current problem.
5. Great to have but not necessary – if you can write **unit tests** for your code.