There was a small handmade statue shop**"Carved Creations"** run by a talented artisan named Sarah. Sarah specialized in five different types of carving: woodcarvings, ceramic figurines, bronze sculptures, stone carvings, and wire art sculptures. Sarah explained that the price of each statue was determined by its type of carving and that the final bill amount would include the sales tax. She contacts a software developer for assistance with their process. You are the software developer, and you are creating a Java program based on the requirements.

**Component Specification: StatueInfo**

|  |  |  |
| --- | --- | --- |
| **Type (Class)** | **Attributes** | **Methods** |
| **StatueInfo** | String statueName  String origin  String carvingType  double price | Necessary getters, setters and four-argument constructor are provided as a part of the code skeleton. |

**Functional Requirement 1: Extract the details of the Statue and create an object of StatueInfo.**

|  |  |  |
| --- | --- | --- |
| **Type (Class)** | **Methods** | **Responsibilities** |
| **UserInterface** | public static StatueInfo **extractDetails**(String statueDetails) | This method accepts **statueDetails**separated by colon as an argument and should extract the properties of the **StatueInfo**from the argument by parsing the **statueDetails**. Set these values to the **StatueInfo**object and return this object. |

**Functional Requirement 2: Calculate the total statue price to be paid by the customer including the tax%.**

|  |  |  |
| --- | --- | --- |
| **Type (Class)** | **Methods** | **Responsibilities** |
| **StatueInfo** | public double **calculateTotalStatuePrice**(int quantity) | This method is used to calculate the total statue price to be paid by the customer including the tax%  If the carvingType is **"Wood Carving"**, the tax is 2% of the price.  If the carvingType is**"Ceramic Figurine"**, the tax is 5% of the price.  If the carvingType is**"Bronze Sculpture"**, the tax is 6% of the price.  If the carvingType is **"Stone Carving"**, the tax is 4% of the price.  If the carvingType is **"Wire Art Sculpture"**, the tax is 3% of the price.  ***Condition:***   * ***CarvingType****is case-sensitive.* * *If the****carvingType****does not match any of the above types, return -1.* * *If the****quantity****is less than or equal to 0, return -1.* * *If the****price****is less than or equal to 0, return -1.* |

**Formula to calculate the total statue price to be paid:**Total Statue Price= quantity\*(price+(price\* tax% (based on the carvingType )/100))

**Example:**

Let the carvingType be**"Wood Carving"**, so the tax% is **2** and the price is **3000** and quantity is **3**

Total Statue Price= 3\*(3000+((3000\*2)/100)))=3\*(3000+60)=3\*3060=9180.0

**Assumption: price is assumed to be in dollars**

**Note**:

* In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user and the rest of the text represents the output.
* Ensure to follow the object-oriented specifications provided in the question.
* Ensure to provide the names for classes, attributes, and methods as specified in the question.
* Adhere to the code template, if provided.

**Sample Input 1:**

Enter the Statue details

**Mother Mary Statue:Rome:Bronze Sculpture:1800**

Enter the Quantity

**5**

**Sample Output 1:**

Statue Details

Statue Name: Mother Mary Statue

Statue Origin: Rome

Statue carving type: Bronze Sculpture

Statue Price: $.1800.0

Total Statue Price to be paid: $.9540.0

**Sample Input 2:**

Enter the Statue details

**Traditional Dragon:Chinese:Ceramic:890**

Enter the Quantity

**2**

**Sample Output 2:**

Invalid Statue details

[**Explanation:** As the **carvingType**is not one of those mentioned, the input is considered as invalid.]

**Sample Input 3:**

Enter the Statue details

**Traditional Dragon:Chinese:Ceramic Figurine:-5890**

Enter the Quantity

**5**

**Sample Output 3:**

Invalid Statue details

[**Explanation:** As the **price**is negative, the input is considered as invalid.]

**Sample Input 4:**

Enter the Statue details

**Traditional Dragon:Chinese:Ceramic Figurine:-6:1890**

Enter the Quantity

**-6**

**Sample Output 4:**

Invalid Statue details

[**Explanation:** As the **quantity**is negative, the input is considered as invalid.]