What is Static Data member and Static Function?

Static Data Member:

- Static data members in C++ are used to store values common to the entire class.
- A static data member is available globally for all the objects of the same class.
- A static data member maintains its single copy that is shared by all the objects of the class.
- It remains in the memory for the entire program but is visible only within the class or the function within which it is defined.

Static Member Functions

- The static member functions are special functions used to access the static data members or other static member functions.
- A member function is defined using the static keyword.
- A static member function shares the single copy of the member function to any number of the class's objects.
- We can access the static member function using the class name or class's objects.
- If the static member function accesses any non-static data member or non-static member function, it throws an error.