TASK-5: GARBAGE COLLECTION IN JAVA

Garbage collection is the process of managing memory, automatically. It finds the unused objects (that are no longer used by the program) and delete or remove them to free up the memory. The garbage collection mechanism uses several GC algorithms. The most popular algorithm that is used is Mark and Sweep.

When a program executes in Java, it uses memory in different ways. The heap is a part of memory where objects live. It's the only part of memory that involved in the garbage collection process. It is also known as garbage collectible heap. All the garbage collection makes sure that the heap has as much free space as possible. The function of the garbage collector is to find and delete the objects that cannot be reached.