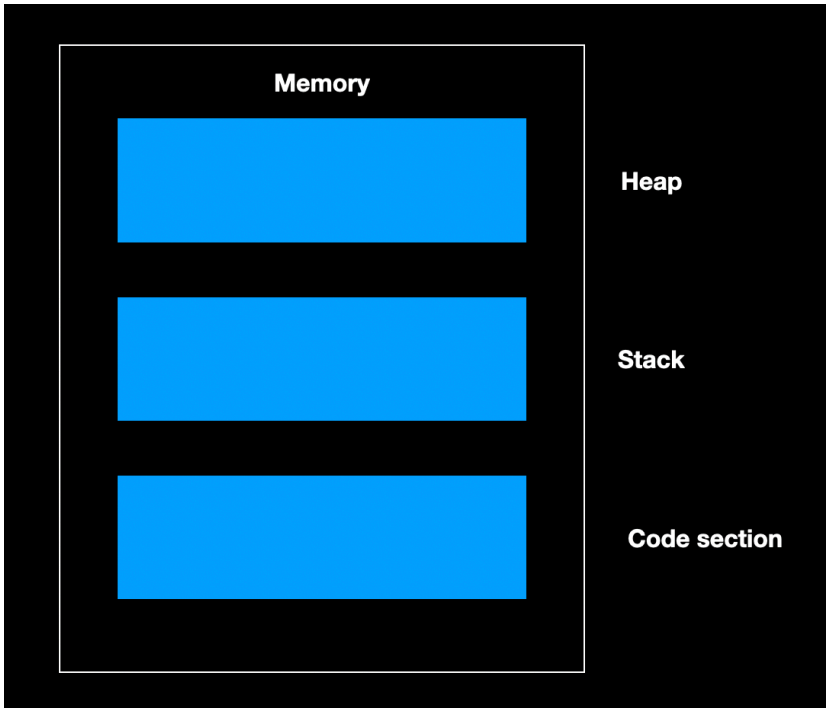
Architecture of JVM

- JVM is responsible for executing the java code
- The main memory is in 3 parts one where the main program resides , the other for storing the program data like variables etc this values are stored in stack area , the last space is free space which is used during the run time of program and is called heap area



- The file with the program is loaded into the code section and the process is called class loading as all java code is in class format

- The job of bringing the code into memory is done by class loader

- The interpreter inside Java code is used to convert the code into the machine code and get executed
- Dynamic values are created inside heap when you say new
- Local variables are created inside stack and they belong to main memory
- When print is called its own stack is created
- JVM also has garbage collector it takes away the values in heap which are not in use
- JVM keeps the addresses of next instructions that needs to be executed and it will hand it over to the CPU
- In java we can invoke or call the methods of other languages like c , c++ this is called native methods, they will be a separate stack for this