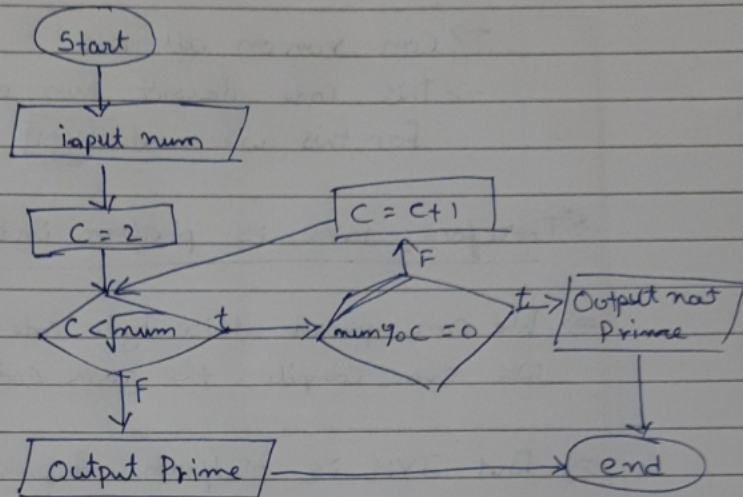


Q. Input a number and print whether it is prime or not

Sol.:



Pseudocode :- Pseudocode is like a rough code which can be understood by a programmer irrespective to their coding language

P.C :- Start

input num

C = 2

while (C < num;

if num % C == 0;

output "not prime"; exit

C = C + 1

end while

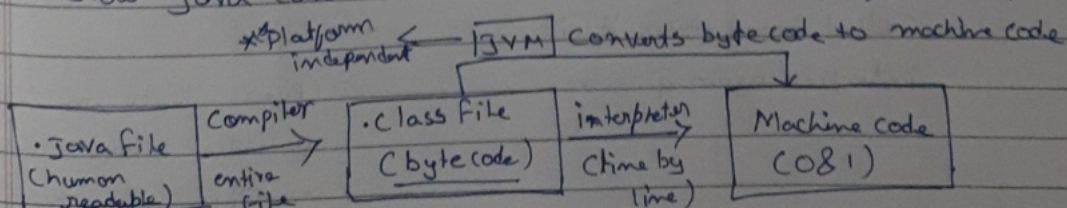
output prime

exit

③

Introduction to Java

* How Java code executes and more about platform independence



⇒ • Class file (byte code)

→ Can run on all O.S

→ This code doesn't run directly on a system
for this we need JVM

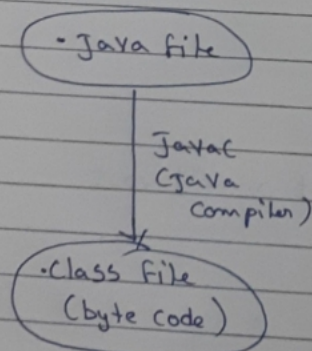
Therefore, Java is platform independent

⇒ We can provide this byte code to any system. means
We can compile the java code on any system

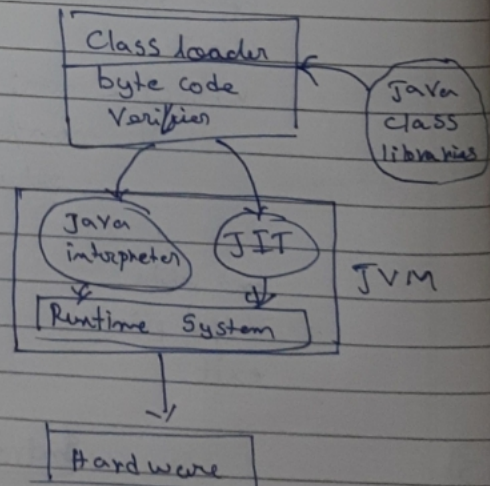
⇒ But JVM is platform dependent means for every
O.S the executable file that we get, it has
step by step set of instruction dependent on platform

** Java development and runtime environment

Compile time



Runtime



⇒ JVM execution :-

- Java interpreter
 - line by line execution
 - When one method is called many times, it will interpret again & again

* Class loader

- loading
 - reads byte code/file & generates binary data
 - an object of this class is created in heap [P.T.O]

- Development tools
- Java C → Java compiler
- archiver → jar
- docs generation
↳ javadoc
- interpreter/loader
etc...

- Deployment technologies
- User interface tool kit
- Integration libraries
- Base libraries
etc...

JIT
[Just in Time]

- Java interpreter
- Garbage Collector
etc...

JDK [Java development kit] → Provides environment to develop & run Java Program

JRE [Java runtime environment]
↳ Provides environment to only run the program

JRE [Java runtime error]

- JIT :-

→ methods that are repeated, JIT provides direct machine code so re-interpretation is not required

→ makes execution faster

- Garbage Collection

- Linking

→ JVM verifies .class file

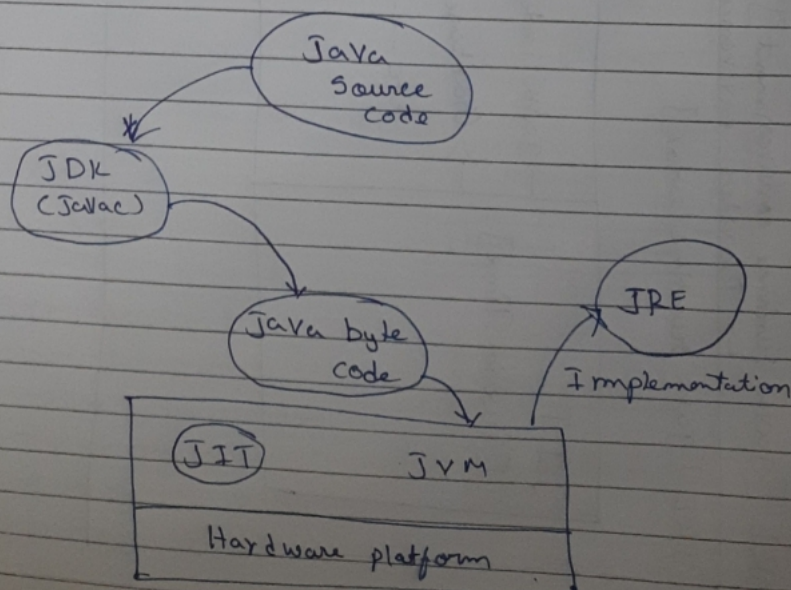
→ allocates memory for class variables & default values

→ Replace symbolic references from the type with direct references

- Initialization

→ all static variables are assigned with their values defined in the code of static block

- * Summary



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