**Q. What is Javascript engine? Explain with examples.**

* Javascript is a scripting language and is not directly understood by computer .A javascript engine is a software component that executes javascript code .these engines helps to convert out javascript program into computer understandable language .
* Javascript engines are typically developed by web vendors and every major browser has one. In a browser the javascript engine runs in concert with the rendering engine via Document Object Model.
* Following are some javascript engines:

**1. V8 -** v8 is a javascript engine developed by the Google chrome which can run standalone because it is written in c++. This allows you to write your own program that can do everything that v8 can do and much more . your program can run ECMAScript and additional features available like file handling,database connections etc. which are available with c++ but not with javascript.

**2. Chakra -** chakra is a jscript engine developed by Microsoft .It is a proprietary software .It is used in the Internet Explorer web browser and Original edge browser but the edge was later rebuilt and now uses v8.A distinctive feature of the engine is that JIT compliles scripts on a separate CPU core ,parallel to the web browser.

**3.Spider Monkey -**SpiderMonkey is the first javascript engine,written by Brenden Eich at Netscape Communications,later released as open-source and currently maintained by the Mozilla foundation .It is used in the Firefox web browser.

**4.JavaScriptCore –** JavaScriptCore(JSC)is the JavaScript engine used by Safari and MacOS.The JSC engine is responsible for executing every single line of

javascript that needs to be executed ,whenever browse to a new website

