

## **KEIL SOFTWARE**

Keil is an IDE that is used for embedded software development. It provides several features like run-time environment, source code editing, and program debugging. Keil uVision is an embedded software development environment from Keil inc. It is used for developing software for the following microcontroller architecture namely:

- 8051
- ARM

The Keil software is able to provide an IDE that can be used to write assembly language code and then the relevant Hexadecimal code is generated.

Following are the salient features of Keil Software:

- The development tools required for the target microcontroller is automatically configured by  $\mu$ Vision Device Database which reduces tool configuration time.
- Facility of integrating additional third-party tools like FLASH/Device Programming is also provided by  $\mu$ Vision IDE which helps in a quick access of the development tools from a single environment.
- $\mu$ Vision incorporates project manager, editor, and debugger in a single environment. This feature helps in speeding up the application development. Also provides with an option of debugging and modifications in the code.
- Identical Target Debugger and Simulator User Interface
- The  $\mu$ Vision Simulator is the only debugger that completely simulates all on-chip peripherals of the Atmel, Philips, and Samsung smart card ARM devices.

Because of this one is capable of writing and test the code application before production hardware is available.

- Simulation capabilities may be expanded using the Advanced Simulation Interface (AGSI). To have more accurate simulation results, you can add your own peripheral devices.

## Output:

