**Experiment #11: Generation Of Signals Using DSK6713**

**Aim:**

1. To generate Sine Wave, Square Wave and Triangular Wave using DSK6713 kit

**Introduction:**

* DSK6713 is a special purpose microprocessor with special type of architecture and instruction set appropriate for real-time signal processing.
* DSK stands for DSP Starter Kit.
* DSK6713 board consists of an analog to digital converter and a digital to analog converter.
* The onboard codec (coder-decoder) AIC23 uses a sigma–delta technology for analog to digital conversion and digital to analog conversion.
* It is a 32-bit stereo codec. It is connected to a 12 MHz system clock.
* Sampling frequencies ranging from to can be set using appropriate instructions.
* The DSK board includes 16MB of synchronous dynamic random access memory (SDRAM) and 256kB of flash memory.
* The DSK operates at 225MHz.
* Also onboard the DSK are voltage regulators that provide 1.26 V for the C6713 core and 3.3 V for its memory and peripherals.
* C6713 processor is capable of fetching a total of eight 32-bit instructions every clock cycle, that is eight instructions every .

**Results and Discussion:**

Sine Wave, Square Wave and Triangular Wave were generated using DSK6713 kit and observed in DSO.