Assign 2:

4. **Can we do nested IF-Then else in CORTEX –M4 ?**

   Ans:

   A nested-if-else cannot be directly implemented using the IT block instruction. Conditional branches can be used to obtain the same results that a traditional nested-if-else block would give, which makes the necessity of 'nested If-then else' obsolete.

5. **On you Hardware board STMF32 find out how you can input a number either through key board or through some kind of sensor and decide whether that is even or ODD**

   Ans:

   A matrix keypad can be interfaced to STM 32F discovery board. When a keypress is detected, the digit entered can be identified using the combination of row and column number.

   Push button switches connected to I/O pins. A number can be input as its binary equivalent using these switches. The number can be obtained by reading the input pins.Thereafter,it can be tested to   see if it is even or odd.

   Any kind of sensors like potentiometer, temperature and humidity which gives digital output can be connected to GPIO pins whose value will be stored in particular register.