```
void CO(){
   // this method will NOT be executed for the UNARY instructions, since the DI() method would have set the execution flag
   // for this method to 'false', and 'true' for TRINARY instructions...
   // here we calculate the operand's EFFECTIVE ADDRESS, setting the EA global var.,
   // for use in the FO() or WO() stages and the EX() stage for the BR's only.
   // in the FI() method we set cpu.OS to the operand specifier value
   // in the DI() method we set the cpu.MODE to the letter corresponding to the addressing mode
   // 'i' for Immediate, 'd' for Direct, 'n' for iNdirect and 'x' for indeXed
   //
   // IF 'indexed' mode;
   // effective address(EA) is: the value of the operand specifier(cpu.OS) plus the contents of the 'X' reg.
   // IF 'indirect' mode
   // effective address is calculated as follows:
        // 1) use the value of the operand specifier(cpu.OS) in order to retrieve a two byte address from memory
        // making use of the global var NEA to concatenate the two bytes.
        // 2) then the two byte address retrieved from memory IS the effective address(EA)
   //
   // IF 'direct' mode
   // effective address(EA) is: the value of the operand specifier(cpu.OS).
   //
   // IF 'immediate' mode
   // we need to set the FO() flag to false, so we do not attempt to retrieve an operand value from memory.
   // the operand value(cpu.OP) is the value of the operand specifier(cpu.OS).
   // the effective address(EA) is the value of the operand specifier(cpu.OS);
   // we need to set the EA, because the BR's instructions will use it to alter the cpu.PC during the EX() step.
}; // end of the CO() method
 void FO(){
   // this method will NOT be executed for:
   // 1) the two types of the STORE instructions(ST/STBYTE), and 2) the BR's,
   // since the DI() method would have set the execution flag for this method to 'false',
   // and 'true' for the others...
   // here we make use of the EA calculated in the CO() method
   // if an "LDBYTEA" or "LDBYTEX" instruction:
   // uses the effective address (EA) to fetch ONLY ONE byte from memory, an instruction's Operand's value (1st or ONLY byte)
   // and stores it into the operand value(cpu.OP's) LOW ORDER byte
   // otherwise, for the rest of the instructions:
   // uses the effective address (EA) to fetch TWO bytes from memory, an instruction's Operand's value (1st/2nd bytes)
   // and stores them into the operand value(cpu.OP
};// end of the FO() method
```

```
void WO(){
    // this method will ONLY be executed for the two types of the STORE instructions(ST/STBYTE),
    // since the DI() method would have set the execution flag for this method to 'true' for ONLY these instructions!!!!
    // and 'false for the rest!!!!
    //
    // here we make use of the EA calculated in the CO() method
    // if a "STBYTEA" or "STBYTEX" instruction:
    // uses the effective address (EA) to store one byte(LOW ORDER byte) from the operand value(cpu.OP), to memory.
    // otherwise, for the "STA" or "STX" instruction:
    // uses the effective address (EA) to store TWO bytes, from the operand value(cpu.OP), to memory
    //
};// end of the WO()
```