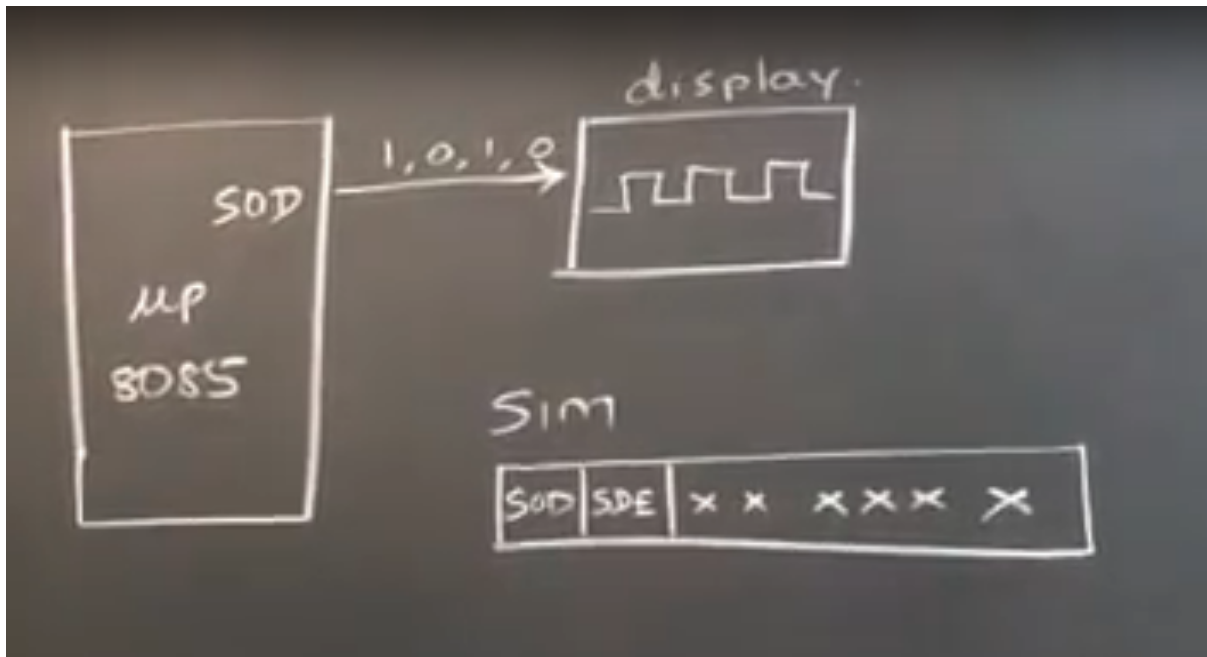


Q. Write a program to generate a square wave of 1 khz.



SOD	SDE	XXXXXX
0	1	= 40H(0)
1	1	= COH(1)

```

Main: MVI A, 40H
      SIM
      Call Delay
      MVI A, COH
      SIM
      Call Delay
      JMP main
  
```

```

Delay: MVI C, Count ; 7TMT
Back: DCR C ; 4TNT
      JNZ Back ; 10T(T) | 7T(F)
      RET ; 10T
  
```

```

// TD = MT + NT* COUNT - 3T
// 0.5 msec = 17T + (14T*COUNT) - 3T
// 0.5 msec = 14T + (14T*COUNT)
  
```

```

# ASSUME #MHz
# 1 T = 1/(3*10^6)
  
```

```

// Count = (106)d = (6A)H//
  
```

Duty cycle of a rectangular wave: on time/ off time

