→ Program - 8

Q.1). Write a program which creates two threads, one thread displaying "BMS College of Engineering" once every ten seconds & another displaying "CSE" once every two seconds.

```
class DisplayMessage extends Thread {
        String message;
        int interval;

    public DisplayMessage (String message, int
    interval) {
        this.message = message;
        this.interval = interval;
    }

    public void run () {
        while (true) {
            try {
                System.out.println (message);
                Thread.sleep (interval * 1000);
            }
            catch (InterruptedException e) {
                e.printStackTrace ();
            }
        }
    }
}
```

Bafna Gold
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```
public class ThreadMain {
public static void main(String[] args) {
DisplayMessage Thread1 = new
DisplayMessage("BMS College of Engineering", 10);
DisplayMessage thread2 = new DisplayMessage("CSE",2);

    Thread1.start();
    Thread2.start();
  }
}
```

Output:

```
BMS College of Engineering
CSE
CSE
CSE
CSE
CSE
BMS College of Engineering
CSE
CSE
CSE
CSE
CSE
BMS College of Engineering
```

ALGORITHM

→ STEP 1: START

STEP 2: Create a class DisplayMessage extending Thread class (Inheritance).

Step 3: Declare two variables in the class message of type string & Interval of type int

Step 4: Using the constructor of same class initialize the two variables.

Step 5: Override the run method Inside an infinite while loop print the message and run sleep(thread) method for specified Interval Inside the try block.

Step 6: catch the InterruptedException and print StackTrace inside the catch block.

Step 7: In the main (thread Main class) Instantiate an objects of class DisplayMessage with parameters ("BMS College of Engineering", 10) and then instantiate another object2 of same class with parameters ("CSE", 2);

Step 8: Run thread1.start() & thread2.start() method

Step 9: Stop

→ Output 1 :-

Enter father's Age
40
Enter Son's Age
10
father's age : 40
son's age : 10

Enter father's age
10
Enter son's age
40
Exception caught : son's age cannot be greater or equal to father's age

Enter father's Age : -20

Exception caught : The age cannot be less than zero

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