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PROGRAM-8

Write a program which creates two threads, one thread displaying "BMS COLLEGE OF ENGINEERING" every 10 seconds and another displaying after every 2 seconds.

```
import java.util.Scanner;  
  
class A extends Thread  
{  
    int t1, time;  
    public void run()  
    {  
        while (t1 <= time)  
        {  
            System.out.println("BMS COLLEGE OF  
                ENGINEERING");  
            try {  
                sleep(10000);  
            } catch (InterruptedException) {  
                System.out.println("Error");  
            }  
            t1 += 10000;  
        }  
    }  
  
    class B extends Thread  
{  
        int t2, time;  
        public void run()  
        {  
            while (t2 <= time)  
            {  
                System.out.println("BMS COLLEGE OF  
                    ENGINEERING");  
                try {  
                    sleep(2000);  
                } catch (InterruptedException) {  
                    System.out.println("Error");  
                }  
                t2 += 2000;  
            }  
        }  
    }  
}
```

$t_2 = 2000;$

System.out.println("Time is : " + t2);

public void run()

{

 while ($t_2 \leq time$)

 {

 System.out.println ("WE 1");

 try {

 sleep (1000);

 } catch (InterruptedException e) {

 e.printStackTrace();

 }

 System.out.println ("error");

 }

 t2 += 2000; // increase time by 2000 ms

}

 } // end of while loop

 } // end of run method

 } // end of class Example

 public static void main (String args[])

 {

 A a = new A();

 B b = new B();

 a.start();

 b.start();

 }

 } // end of class Example

Algorithm

- Step 1: Start
- Step 2: Create a class Message which extends Thread.
- Step 3: Create a class constructor within the class to display the message and specify the time interval.
- Step 4: Create the method run() for message in the try

Algorithm

- Step 1: Start
- Step 2: Class A extends Thread and prints BMS COLLEGE OF ENGINEERING every 10 seconds until a total time of 21 seconds is reached.
- Step 3: Class B extends Thread all prints est every 2 seconds until a total time of 21 seconds.
- Step 4: The th class contains the main method where objects of classes 'A' and 'B' are created and started using the 'start'.
- Step 5: The use of sleep inside the loop can lead to inaccurate timing due to the time taken to execute other code inside the loop.
- Step 6: The exception handling in the run method of classes 'A' and 'B' is not ideal.
- Step 7: Interrupted Events since that's the specifying exception thrown by sleep.
- Step 8: Stop.