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1BM19CS199

18/12/2020

Week 11 – Practice Program 1

```
import java.util.*;
import java.lang.*;

class OddThread extends Thread {
    int odd_sum = 0;
    OddThread() {
            super ("ODD Threak");
            System.out.println("Child Thread :" +this);
            start();
    }
    public void run() {
            try {
                    for(int i=1; i<=100; i++){
                            if(i%2!=0){
                                    odd_sum = odd_sum+i;
                                    Thread.sleep(100);
                            }
                    }
            } catch (InterruptedException e){
                    System.out.println("~~Sum of~~ Child Interrupted");
            }
            System.out.println("Sum of Odd Numbers from 1 to
                    100 :" +odd_sum);
    }
}
```

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```
class Thread_Practice1 {
    public static void main(String args[]){
        int even_sum=0;
        new OddThread();
        try{
            for(int i=1; i<=100; i++){
                if(i%2==0){
                    even_sum= even_sum+i;
                    Thread.sleep(200);
                }
            }
        } catch(InterruptedException e){
            System.out.println("Main Thread Interrupted");
        }
        System.out.println("Sum of even nos. from
                            1 to 100 :" +even_sum);
    }
}
```

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Week 11 - Practice Programs 2

```
import java.util.*;

class ThreadRandom implements Runnable {
    Thread t;
     Thread Random (){
          t = new Thread(this, "Random Integer Thread");
          t.start();
     }
     public void run(){
          try {
               Random R= new Random();
               for (int i=0 ; i<5; i++){
                    int n= R.nextInt (100);
                    System.out.println("Random Integer:"+n);
                    if((n%2) == 0){
                         new ThreadSq(n);
                    }
                     else {
                         new ThreadCu(n);
                     }
                     Thread.sleep (1000);
               }
          }catch(InterruptedException e){
               System.out.println("Random Thread Interrupted");
          }
     }
}
```

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```
class ThreadSq implements Runnable{
        int num;
        Thread s;
        ThreadSq (int num){
                this.num = num;
                s = new Thread(this, "SquareThread");
                s.start();
        }
        public void run (){
                System.out.println(" Square of "+num+" = "+
                                                (num*num));
        }
}
class ThreadCu implements Runnable{
        int num;
        Thread c;
        ThreadCu (int num){
                this.num=num;
                c= new Thread(this, "Cube Thread");
                c.start();
        }
        public void run(){
                System.out.println("Cube of "+num+"
                                = "+(num*num*num));
        }
}
class ThreadPractice2 {
        public static void main(string args[]){
            ThreadRandom R = new ThreadRandom();
            try{  R.t.join();
            }catch(Interrupted Exception e){
                System.out.println("Main Thread Interrupted
            }
}}
```