## Tanisho Chauhan 21C3184 CS-B



## Object Oriented Programming (CER3C2) Mid Semester Test -Answer of Q. No. 4 Java finally block is a block used to execute important (9) . code such as closing the connection etc Java finally block is always executed whether an exception is handled on not. Therefore, it contains all the necessary statements that need to be printed regardless of the exception occurs on not The finally block is used to disply information on to execute statements, which needs to execute burespective of the catch block The purpose of finally block is to execute code of finally block when try block's exit. This ensures that the finally block is executed even if an unexpected exception occurs But finally is useful for more than just exception handling. If allows the programmer to avoid having cleanup lode. Scenario in which the code in finally black will not executed: If the JUM exits while the try on ratch code is being executed, then the finally block may not execute. If the thread executing the try or catch code is interreputed on Rilled, the finally block may not execute even though the application as whole continues. When the system. exit() method is called in try block

	before the execution of finally block finally block will not be executed.
(p)	Advantages of Synchronized black over Synchronized  Method:  Synchronized black reduce scope of lock but  synchronized method: scope of lock is whole method.
	Synchronized block has better performance as only critical section is locked but synchronized method has poor porformance than block.
·	Synchronized block can throw NULL pointer exception but synchronized method doesn't throw.
	Synchronized block provide granular control over lock but synchronized method lock either on current object represented by their or class level lock.
	Synchronized Block: synchronized (this) {} Synchronized Method: public synchronized void fun() {}

*	Answer of Q. No. 1
	imposit Java. Vill. signnesi;
	class Temperature extends Exception
	public Temperature (String stri)
	Super (str);
	TIC I Treation
	public class Test (ustom Exception
	Static void check (float temperature)
	throws Temperature
	if (temperature < 94.00)
	IF ( Temporation C )
	5
	throw new Temperature l'Temperature Below
	Nonmal");
	}
	else if
	(temporature > = 94.00 44 temperature
	(temponature > = 94.00 44 temperature < = 100.00).
	throw new Temperature ("Normal Temperature")

else { throw new Temperature ("High Temperature");
}
public static void main (String args [])
System. out · println ("Enter a temperature: ");  Scanner Sc = new Scanner (System.in);  Float temp;  temp = Sc. nextfoot();
tary { check Itempl;
} 
(atch (Tempereture +)
System.out.println ("Exception cought -"++);
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\$

*	Answer of Q. No. 2
	import Java. util . Scanner;
	class Even extends livread ?
	public int n1, n2; public Even (++ int n1, int n2)
	this • n 1 = n 1
	this: n2=n2;
	public void mon ()
	£31.4
	if (N11051=0){
	N1++;
	for (int i = n1; i < = n2; i = i + z)
	System. out. paintln ("Eventhreadi"
	sleep (500);
	catch (Interropted Exception e)
	system out print ("Even thread was in terrapted");

Tanisha Chauhan 2103184 CS-B class Odd extents Thread Public int n1, n2; public odd (int ni, int nz) this.ni = ni; This. n2 = n2; public void mon () { if (n1°1, 2 == 0) nitt; for (int i=n1; icn2; j=i+2) system.out.println ("Odd thread: "+i); sleep (500); ratch (Interrupted Exception e) system.out. println (" Odd thread was intropped"); Tanisha (hawhan 21(3184 (S-B

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class display

{

public static void main (string args [])

{

Scanner input = new Scanner (system.in);

int n1 = input.next Int();

int n2 = input.next Int();

new Even (n1, n2). start();

new Odd (n1, n2. start();

}