

GLS UNIVERSITY
Bachelor of Computer Applications (BCA)
(Core Course)
Semester-III
210301305 PRACTICALS ON CORE JAVA
Assignment 4
Unit-4 Exception Handling and Multi Threading

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| 1. Write a program in Java to develop user defined exception for 'Divide by Zero' error. |
| 2. Write an small application in Java to develop Banking Application in which user deposits the amount Rs1000.00 and then start withdrawing of Rs 400.00, Rs300.00 and it throws exception "Not Sufficient Fund" when user withdraws Rs. 500 thereafter. |
| 3. Write a java program to handle the exception using try and multiple catch block. |
| 4. Write a program to handle the user defined exception using throw keyword. |
| 5. Write a program which create a class named Triangle which throw an exception if the CartesianPoint instances passed as parameter does not specify an appropriate Triangle i.e. if the three points are in a straight line |
| 6. Write a program that executes two threads. One thread displays "Thread1" every 2,000 milliseconds, and the other displays "Thread2" every 4,000 milliseconds. Create the threads by extending the Thread class. |
| 7. Write a program that executes two threads. One thread will print the even numbers and the thread will print odd numbers from 1 to 50. |
| 8. Write a program to create a thread that implement runnable interface. |
| 9. Write a java program which create threads using the thread class. |
| 10. Write a java program which manipulates and shows the priority of threads. |
| 11. Write a java program to create two threads. One using runnable interface and other by extending thread. First thread will print all odd numbers and second will print all even numbers between 1 to 10. |
| 12. Write a program to create three threads. Assign priority to thread. Make a class |

to test them. Also use Sleep method to give pause between them.

13. Write a java program to create 3 threads using Thread class. Three threads should calculate the sum of 1 to 5, 6 to 10 and 11 to 15 respectively. After all thread finishes main thread should print the sum and average.

14. Write a java program that creates two threads using Runnable interface. One thread should display “Thread 1” at every 1000 Milliseconds and other should display “Thread 2” at every 3000 milliseconds.



