MIT-WPU

School of Computer Science

Practical Assignment No: 03

Std: MCA- I   **Subject: Core Java**

Assignment Date: 14ᵗʰ Oct 2022   Submission Date: 31ˢᵗ October 2022

==

Topic: Multithreading and File Handling

Q.1.

What is multithreading? Write a multithreaded program for demonstrating following threads: .

a)   Display all number divisible by 8 from 1 to 100.

b)   Display all even numbers between 51 to 100.

c)   Display the message " Java is Awesome" 10 times.

Q.2.   Write an application that will create following threads:

--   Which will print A to Z 50 times ?

--   And 15 – terms of Fibonacci Series

Q.3.

Write a program to create two threads which will display message 'n' number of times. While creating thread pass the message and n as parameters. Message should appear in alternate order.

Q.4.

Explain about Thread Life Cycle

Q.5.

Write a program which demonstrate Thread Synchronization by using Synchronized statement and Synchronized Methods.

(Write short note on Thread Synchronization and explain with example)

Q.6.

Write a Java Program which demonstrate Interthread communication by using wait(), notify() and notifyAll().

Q.7.

Write a multithreaded application bus / railway ticket reservation system.

Q.8.

Write a Java program that creates three threads. First thread displays "Hello!" every one second, the second thread displays "Wear Mask !" every two seconds and "Use Sanitizer !" every 5 seconds.

Q.9.

Write the difference between Extending thread and implementing runnable?

Q.10.

Write a threaded applet which will display circle with different colours. Colour will change after 1 second. Accept radius of the circle as Parameter

(i.e. Write a Multithreaded application which demonstrate Traffic Signal)

Q.11.

Write a Multithreaded application which demonstrate Bouncing Ball Applet

Q.12.

Write a Java program to accept a file name from command prompt. If the file exists, then display number of words and lines in that file using FileReader class.

File Handling

Q.1. Write a java program to display the contents of the file in reverse order.

Q.2. Write a Java Program to append the content of File f1(abc.txt) to File f2(xyz.txt)

Q.3. Write a Java Program to take charters input from user once user enters 'q' quit from the file and display the content added in the file.

Q.4.
Write a Java program to take a file path in a TextField and display the content present in the file in TextArea.

Q.5.

Write a program to count characters, word and lines in a file . Read the file name from User