

Assignment

Ques 1
Multithreading means multiple thread can be execute at a same time. When we need to execute multiple thread then we should need to use multithreading. In this we just need to extend/implement the class and write a code in run() method. With the help of start(), ~~method~~ we can call the run method.

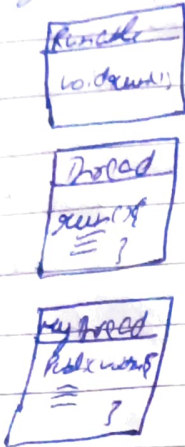
Ques 2
Benefits :- * Multiple thread can be execute at same time.

- * Proper utilization of CPU.
- * Decrease the time of output.
- * Reduce the memory space (By not creating object reference)
- * If exception occurs in a single thread not effect the other thread.

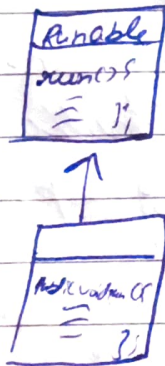
Ans 3
Thread is a path or direction which is taken while a program is being execute. In java program we have atleast one thread which is called main thread.

Ans 4
There are two ways to implementing the thread in java.

- ① By extending the thread class
- ② By implementing the runnable interface
- ③ By extending the thread class



- ② By implementing the runnable interface



5 Thread:- It is a light process, we say smallest part of process that allow a programmer to operate more efficient running multiple task simultaneously.

Process:- It is simply refers to program as it is in execution. A process can be handled using PCB

when all the threads dies, JVM terminates this thread automatically. There are many demon threads running automatically e.g. Finalizer etc.

Q6

Public class A extends Thread {

public Demon Thread (String name & Refer (name) {

if (Thread.currentThread().isDaemon()) {

System.out.println (getname() + " is demon thread");

} else {

System.out.println (getname() + " is user thread");

}

public static void main (String args[]) {

A a1 = new A();

A a2 = new A();

A a3 = new A();

a1.setDaemon(true);

a2.setDaemon(true);

a1.start();

a2.start();

a3.start();

}

Output
a1 is demon thread
a2 is demon thread
a3 is user thread.

Q7 Wait: wait method is used when we need to make a thread in

wait state and then thread is in blocked state. to put a thread in runnable we need notify method

Sleep: it is used to make a thread sleep. we don't make a thread in blocked state properly.