MULTITHREDING

QUES-1) WHAT DO YOU MEAN BY MULTITHREADING? WHY IS IT IMPORTANT?

ANS) MULTITHREADING- THE PROCESS BY WHICH WE CAN ABLE TO EXECUTE MORE THAN ONE TASK, SIMULTANEOUSLY, IN ORDER TO SAVE THE CPU SPEED.

* TO SAVE THE CPU TIME.
* TO MAKE OUR PROGRAM EXECUTE FASTER.

QUES-2) WHAT ARE THE BENEFITS OF USING MULTITHREADING?

ANS)

* TO SAVE THE CPU TIME
* TO MAKE OUR PROGRAM EXECUTE FASTER
* TO EXECUTE THINGS SIMULTANEOUSLY.

QUES-3) WHAT IS THREAD IN JAVA?

ANS) IT IS A SUBPROCESS THAT IS USED TO EXECUTE A TASK.

QUES-4) WHAT ARE THE TWO WAYS OF IMPLEMENTING THREADS IN JAVA?

ANS) THE TWO WAYS TO IMPLEMENT A THREAD IS :-

* 1)BY EXTENDING THREAD CLASS.
* 2) BY IMPLMENTING RUNNABLE INTERFACE.

QUES-5) WHAT IS THE DIFFERENCE BETWEEN THREAD AND PROCESS?

ANS)

**THREAD**- IT IS A LIGHT WEIGHT PROCESS, WHICH IS USED TO PERFORM A TASK, IN A PROCESS THERE ARE SEVERAL THREADS, COMMUNICATION BETWEEN THREAD IS THREAD SWITCHING

**PROCESS-** IT IS A HEAVY WEIGHT PROCESS, WHICH IS USED TO PERFORM A OPERATION, NOW A DAYS PROCESSORS ARE USED TO PERFORM MULTIPLE TASK, COMMUNICATION BETWEEN PROCESS IS CONTEXT SWITCHING.

QUES-6) HOW CAN WE CREATE DAEMON THREAD?

ANS)

public class TestDaemonThread1 extends Thread{

public void run(){

if(Thread.currentThread().isDaemon()){//checking for daemon thread

System.out.println("daemon thread work");

}

else{

System.out.println("user thread work");

}

}

public static void main(String[] args){

TestDaemonThread1 t1=new TestDaemonThread1();//creating thread

TestDaemonThread1 t2=new TestDaemonThread1();

TestDaemonThread1 t3=new TestDaemonThread1();

t1.setDaemon(true);//now t1 is daemon thread

t1.start();//starting threads

t2.start();

t3.start();

}

}

QUES-7) WHAT ARE THE WAIT() AND SLEEP() METHOD?

ANS)

WAIT()- THE WAIT METHOD IS USED TO CHANGE THE STATE OF TASK, AND CONVERT THEM INTO WAITING AREA, BY DEALLOCATING THE RESOURCES, AND THAN AGAIN IT IS USED TO TAKE AND RESOURCES AND EXECUTE IT.

SLEEP()- THE METHOD IS USED TO SLEEP THE TASK FOR FEW MINUTES

THE THREAD SCHEDULAR IS THE PRIORITIZER WHICH IS USED TO EXECUTE THE TASKS.