

Java Assignment

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Div: A

Q) Write a program for Thread creation by extending Thread class

```
/**
 * Q 1 ) Write a program for Thread creation by extending Thread class
 */

package com.practical;

public class example_Thread extends Thread{
    public static void main(String[] args) {
        Thread te = new Thread();
        Thread t1 = new Thread(te,"MCA");
        Thread t2 = new Thread(te,"BCA");
        Thread t3 = new Thread(te,"MBA");
        t1.setPriority(Thread.NORM_PRIORITY);
        t2.setPriority(Thread.MIN_PRIORITY);
        t3.setPriority(Thread.MAX_PRIORITY);
        t1.start();
        t2.start();
        t3.start();
    }
    public void run() {
        System.out.println("Current Thread ID- " + Thread.currentThread().getId() + " For Thread- " +
            Thread.currentThread().getName());
    }
}
```

Output:



```
<terminated> Thread_Extend [Java Application] C:\Program Files\Java\jdk-14.0.1
Current Thread ID- 15 For Thread- MCA
Current Thread ID- 16 For Thread- BCA
Current Thread ID- 17 For Thread- MBA
```

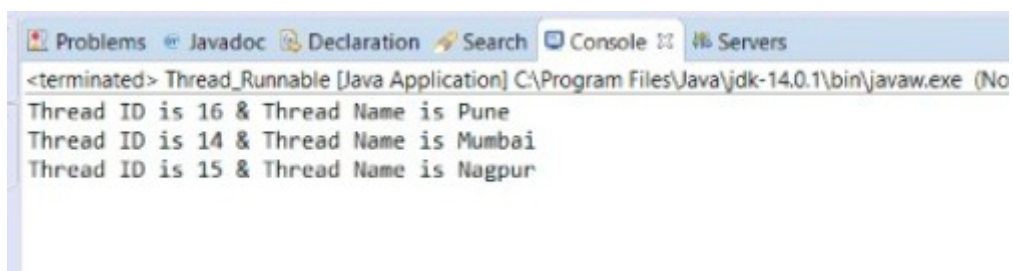
Q) Write a program Thread creation by implementing Runnable Interface

```
/**
 * Write a program Thread creation by implementing Runnable Interface
 */

package com.practical;

public class runnable implements Runnable{
    public static void main(String[] args) {
        Thread tr=new Thread();
        Thread t1 = new Thread(tr,"Mumbai");
        Thread t2 = new Thread(tr,"Nagpur");
        Thread t3 = new Thread(tr,"Pune");
        t1.setPriority(6);
        t2.setPriority(8);
        t3.setPriority(4);
        t1.start();
        t2.start();
        t3.start();
    }
    public void run(){
        System.out.println("Thread ID is " + Thread.currentThread().getId() + " & Thread Name is " +
        Thread.currentThread().getName());
    }
}
```

Output:

A screenshot of a Java IDE's console window. The window has tabs for 'Problems', 'Javadoc', 'Declaration', 'Search', 'Console', and 'Servers'. The 'Console' tab is active, showing the output of a Java application. The output text is: '<terminated> Thread_Runnable [Java Application] C:\Program Files\Java\jdk-14.0.1\bin\javaw.exe (No Thread ID is 16 & Thread Name is Pune Thread ID is 14 & Thread Name is Mumbai Thread ID is 15 & Thread Name is Nagpur'. The text is displayed in a monospaced font with some color coding (e.g., 'Thread ID' in red, 'Thread Name' in blue).