

Session -5

Assignment

1. Write a simple timer that can periodically print a timeout message.

Program Code:

```
import java.util.Timer;
import java.util.TimerTask;
public class Reminder {
    Timer timer;
    public Reminder(int seconds) {
        timer = new Timer();
        timer.schedule(new RemindTask(), seconds*1000);
    }
    class RemindTask extends TimerTask {
        public void run() {
            System.out.println("Time's up!");
            timer.cancel();
        }
    }
    public static void main(String args[]) {
        new Reminder(5);
        System.out.println("Task scheduled.");
    }
}
```

Java & Class File:

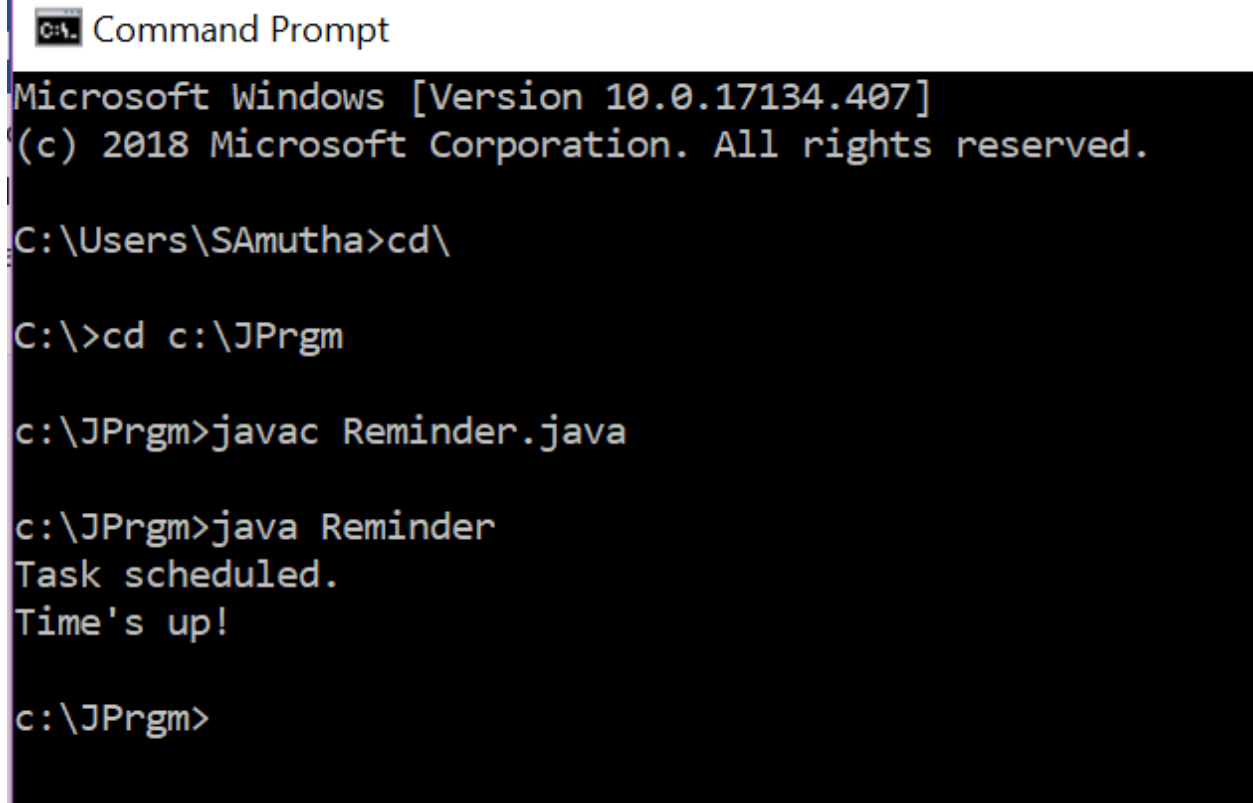


Reminder.java



Reminder.class

Program Output:



```
C:\> Command Prompt

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C:\Users\SAmutha>cd\

C:\>cd c:\\JPrgm

c:\JPrgm>javac Reminder.java

c:\JPrgm>java Reminder
Task scheduled.
Time's up!

c:\JPrgm>
```

2. Write a program to build any collection containing duplicates. Create its copy with all duplicates removed.

Program Code:

```
import java.util.*;
class RemoveDuplicates
{
void removeDuplicates(String str)
{
    LinkedHashSet<Character> lhs = new LinkedHashSet<>();
    for(int i=0; i<str.length(); i++)
        lhs.add(str.charAt(i));
    for(Character ch : lhs)
        System.out.print(ch);
}
public static void main(String args[])
{
    String str = "Learning Java";
    RemoveDuplicates r = new RemoveDuplicates();
    r.removeDuplicates(str);
}
}
```

Java & Class file:



RemoveDuplicates.java

va



RemoveDuplicates.class

ass

Program Output:



Command Prompt

```
Microsoft Windows [Version 10.0.17134.407]  
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```

```
C:\Users\SAmutha>cd\
```

```
C:\>cd c:\JPrgm
```

```
c:\JPrgm>javac RemoveDuplicates.java
```

```
c:\JPrgm>java RemoveDuplicates
```

```
Learnig Jv
```

```
c:\JPrgm>
```