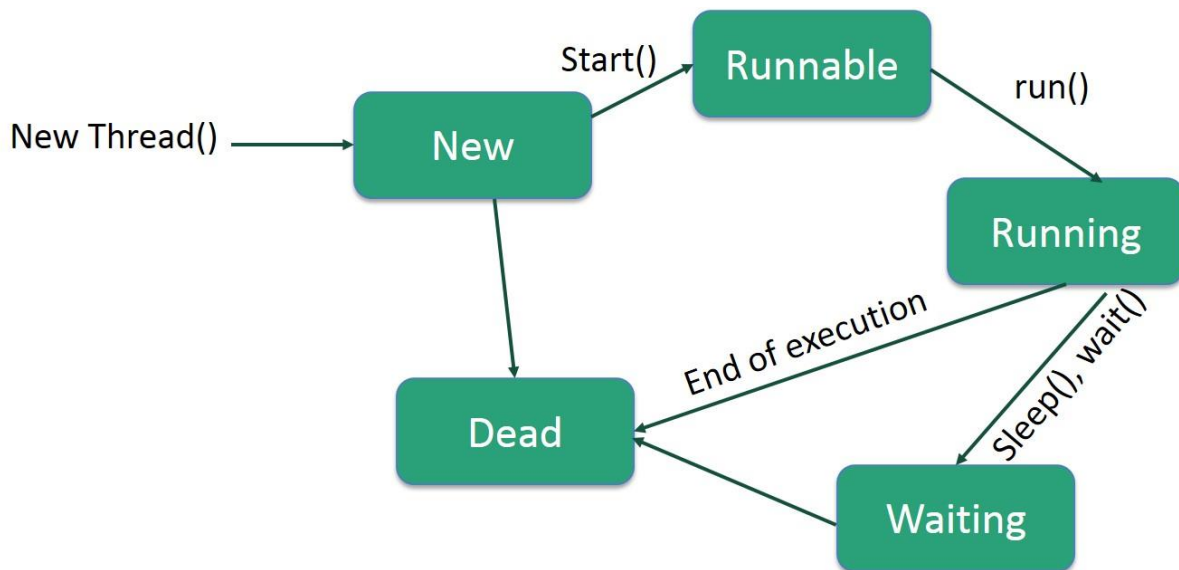


Wrapper classes

1. //Java Program to convert all primitives into its corresponding
2. //wrapper objects and vice-versa
3. **public class** WrapperExample3{
4. **public static void** main(String args[]){
5. **byte** b=10;
6. **short** s=20;
7. **int** i=30;
8. **long** l=40;
9. **float** f=50.0F;
10. **double** d=60.0D;
11. **char** c='a';
12. **boolean** b2=true;
- 13.
14. //Autoboxing: Converting primitives into objects
15. Byte byteobj=b;
16. Short shortobj=s;
17. Integer intobj=i;
18. Long longobj=l;
19. Float floatobj=f;
20. Double doubleobj=d;
21. Character charobj=c;
22. Boolean boolobj=b2;
- 23.
24. //Printing objects
25. System.out.println("---Printing object values---");
26. System.out.println("Byte object: "+byteobj);
27. System.out.println("Short object: "+shortobj);
28. System.out.println("Integer object: "+intobj);
29. System.out.println("Long object: "+longobj);
30. System.out.println("Float object: "+floatobj);
31. System.out.println("Double object: "+doubleobj);
32. System.out.println("Character object: "+charobj);
33. System.out.println("Boolean object: "+boolobj);
- 34.
- 35.

```
36. //Unboxing: Converting Objects to Primitives
37. byte bytevalue=byteobj;
38. short shortvalue=shortobj;
39. int intvalue=intobj;
40. long longvalue=longobj;
41. float floatvalue=floatobj;
42. double doublevalue=doubleobj;
43. char charvalue=charobj;
44. boolean boolvalue=boolobj;
45.
46. //Printing primitives
47. System.out.println("---Printing primitive values---");
48. System.out.println("byte value: "+bytevalue);
49. System.out.println("short value: "+shortvalue);
50. System.out.println("int value: "+intvalue);
51. System.out.println("long value: "+longvalue);
52. System.out.println("float value: "+floatvalue);
53. System.out.println("double value: "+doublevalue);
54. System.out.println("char value: "+charvalue);
55. System.out.println("boolean value: "+boolvalue);
56. }}
```

Thread Life Cycle



Multithreading Programs

```
public class Table {  
    synchronized void printTable(int n){//synchronized method  
        for(int i=1;i<=5;i++){  
            System.out.println(n*i);  
            try{  
                Thread.sleep(400);  
            }catch(Exception e){System.out.println(e);}  
        }  
    }  
}
```

```
public class MyThread1 extends Thread {  
    Table t;  
    MyThread1(Table t){  
        this.t=t;  
    }  
    public void run(){  
        t.printTable(5);  
    }  
}
```

Core Java Training

```
public class MyThread2 extends Thread {
    Table t;

    MyThread2(Table t){
        this.t=t;
    }

    public void run(){
        t.printTable(100);
    }
}

public class Main {
    public static void main(String args[]){
        Table obj = new Table();//only one object
        MyThread1 t1=new MyThread1(obj);
        MyThread2 t2=new MyThread2(obj);
        t1.start();
        t2.start();
    }
}
```

File Handling

```
import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileWriter;
import java.io.IOException;
import java.util.Scanner;

//Class to demonstrate File Creation , File writing & File Reading
public class FileHandling {

    public static void main(String args[]) {
        try {
            // Creating an object of a file
            File f0 = new File("F://FileExample.txt");
            if (f0.createNewFile()) {
                System.out.println("File " + f0.getName() + " is created
successfully.");
            } else {
                System.out.println("File already exists in the directory.");
            }
        } catch (IOException exception) {
            System.out.println("An unexpected error is occurred.");
            exception.printStackTrace();
        }

        //Writing to the above file
        FileWriter fwrite;
        try {
            fwrite = new FileWriter("F://FileExample.txt");
            // writing the content into the FileExample.txt file
            fwrite.write("A named location used to store related information is
referred to as a File.");

            // Closing the stream
            fwrite.close();
            System.out.println("Content is successfully wrote to the" );
        } catch (IOException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }

        //Reading from the above file
    }
}
```

```
        try {
            // Create f1 object of the file to read data
            File f1 = new File("F://FileExample.txt");
            Scanner dataReader = new Scanner(f1);
            while (dataReader.hasNextLine()) {
                String fileData = dataReader.nextLine();
                System.out.println(fileData);
            }
            dataReader.close();
        } catch (FileNotFoundException exception) {
            System.out.println("Unexpected error occurred!");
            exception.printStackTrace();
        }
    }
}
```