

# Quick Start Guide

## Running the Application

### ***Method 1: Using the Batch File (Recommended for Windows)***

```
.\compile.bat
```

### Method 2: Manual Compilation and Execution

```
# Compile the Java files
javac -d . src\com\todoapp\*.java

# Run the interactive application
java com.todoapp.TODOApp

# Or run the demo
java com.todoapp.TODOAppDemo
```

### Method 3: Using separate bin directory

```
# Create bin directory and compile
mkdir bin
javac -d bin src\com\todoapp\*.java

# Run from bin directory
java -cp bin com.todoapp.TodoApp
```

## Application Features

The Todo App includes the following menu options: 1. Add Task - Create new tasks with descriptions 2. View All Tasks - Display all tasks with status 3. View Pending Tasks - Show only incomplete tasks 4. View Completed Tasks - Show only finished tasks 5. Mark Task as Complete - Change task status to completed 6. Mark Task as Incomplete - Change task status back to pending 7. Delete Task - Remove a task permanently 8. Show Statistics - Display progress and completion rate 9. Clear All Tasks - Remove all tasks (with confirmation) 0. Exit - Quit the application

## Sample Session

```
Enter your choice (0-9): 1  
■ ADD NEW TASK  
■■■■■■■■■■■■■■■■  
Enter task description: Study Java collections
```

[illegible]

## Tips for Using the Application

- Task IDs are automatically assigned and cannot be changed
- Use descriptive task names for better organization
- Check statistics regularly to track your progress
- Use the confirmation prompts to avoid accidental deletions
- The application stores data in memory only (data is lost when you exit)

## Troubleshooting

### ***Common Issues:***

1. "javac is not recognized" - Make sure JDK is installed and added to PATH 2. "java is not recognized" - Ensure Java is properly installed 3. "ClassNotFoundException" - Make sure you're in the correct directory 4. "Compilation errors" - Check that all .java files are in the correct package structure

### Verification Steps:

1. Check Java installation: `java -version`
2. Check compiler: `javac -version`
3. Verify file structure matches the package declaration
4. Ensure you're running commands from the project root directory