

PyShell Command Reference Guide

1. DSA Commands (Stack, Queue, Linked Lists)

- Stack Commands

```
stack push 10 20      -> Push values to stack  
stack pop            -> Pop top element  
stack peek           -> View top element  
stack display        -> Show all items  
stack trace          -> Reverse display  
stack sort           -> Sort stack  
stack sort reverse   -> Sort in descending order  
stack search 10       -> Search value  
stack bsearch 10      -> Binary search after sorting
```

- Queue Commands

```
queue enqueue 10 20   -> Add to queue  
queue dequeue         -> Remove front item  
queue front/rear     -> Peek front/rear  
queue display         -> Show all items  
queue sort           -> Sort queue  
queue sort reverse   -> Descending sort  
queue search 10       -> Search value  
queue bsearch 10      -> Binary search
```

- LinkedList Commands

```
linkedlist insert 10 20 -> Insert values  
linkedlist delete 10   -> Delete value  
linkedlist display     -> Show list  
linkedlist reverse     -> Reverse display  
linkedlist sort        -> Sort list  
linkedlist search 10    -> Search  
linkedlist bsearch 10   -> Binary search
```

- CircularLinkedList Commands

```
clist insert 10 20     -> Insert circular  
clist delete 10        -> Delete  
clist display          -> Show items  
clist sort             -> Sort  
clist sort reverse    -> Reverse sort
```

clist search 10 -> Search
clist bsearch 10 -> Binary search

- DoublyLinkedList Commands

dlist insert 10 20 -> Insert doubly
dlist delete 10 -> Delete
dlist display -> Show items
dlist reverse -> Reverse display
dlist sort -> Sort
dlist sort reverse -> Reverse sort
dlist search 10 -> Search
dlist bsearch 10 -> Binary search

2. File Operations

file read input.txt -> Read content
file write output.txt Hello -> Write new content
file append file.txt More -> Append data
file delete file.txt -> Delete file
file access file.txt -> Check accessibility
file open file.pdf -> Open file

3. Navigation & Utility

cd D:\folder -> Change directory
pwd -> Show current directory
clear -> Clear the screen
help -> Show command help
exit -> Quit shell

4. System Commands (OS)

dir -> List directory contents
type input.txt -> Show file content
echo Hello > file.txt -> Redirect output to file
ping google.com -> Network ping

5. I/O Redirection & Piping Examples

type input.txt | find "Line" -> Search 'Line' in file
dir | findstr "txt pdf" -> Filter files
type input.txt > output.txt -> Redirect output to file
type input.txt | findstr "test" | sort -> Multiple piping