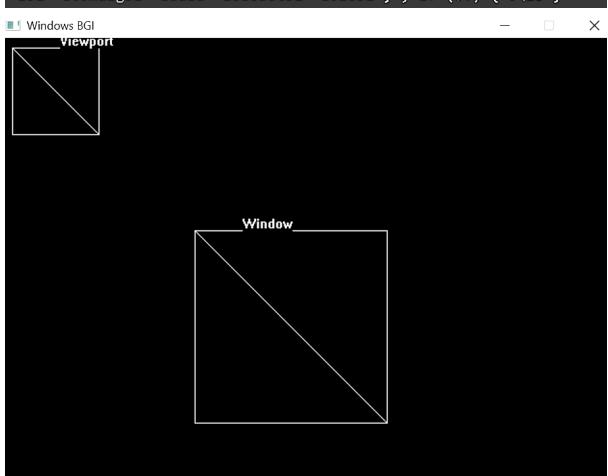
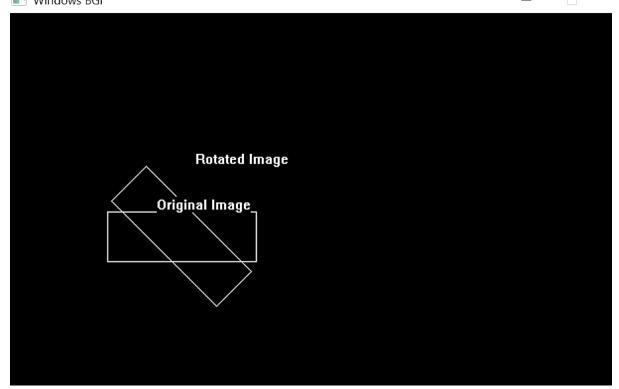
PS C:\Users\ASUS\OneDrive\Desktop\Paras-CG> cd "c:\Users\ASUS\OneD i32 -lcomdlg32 -luuid -loleaut32 -lole32 }; if (\$?) { .\16 }



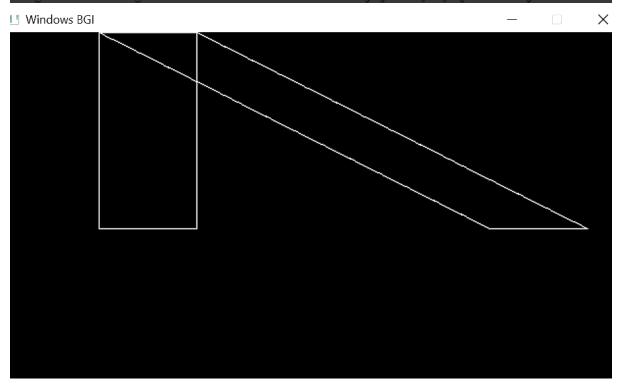
```
PS C:\Users\ASUS\OneDrive\Desktop\Paras-CG> cd "c:\Users\ASUS\OneDri
i32 -lcomdlg32 -luuid -loleaut32 -lole32 } ; if ($?) { .\15 }
Enter top-left coordinates(x1,z1):100 200
Enter bottom-right coordinates(x2,z2):250 250
Enter the angle of rotation:45
```



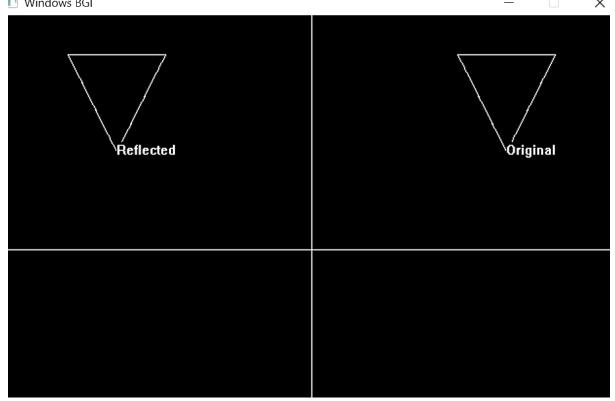
```
PS <u>C:\Users\ASUS\UneDrive\Desktop\Paras-CG\Labs</u>> cd "c:\
  -lgdi32 -lcomdlg32 -luuid -loleaut32 -lole32 } ; if ($?
 Enter top-left coordinates(x1,y1):100 200
 Enter bottom-right coordinates(x2,y2):300 300
 Enter the translation distance(tx,ty):150 150
■ Windows BGI
              Object
                             lmage
```

```
PS C:\Users\ASUS\OneDrive\Desktop\Paras-CG> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-CG> cd "c:\Users\ASUS\OneDrive\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop
```

```
PS C:\Users\ASUS\OneDrive\Desktop\Paras-CG> cd "c:\Users\ASUS\OneDrive\Deskto -lgdi32 -lcomdlg32 -luuid -loleaut32 -lole32 } ; if ($?) { .\12ii }
```



PS C:\Users\ASUS\OneDrive\Desktop\Paras-CG\Labs> cd "c:\Users\ASUS\OneDrive\Desktop\
gi -lgdi32 -lcomdlg32 -luuid -loleaut32 -lole32 }; if (\$?) { .\12i }



PS C:\Users\ASUS\OneDrive\Desktop\Paras-CG> cd "c:\Users\ASUS\-lgdi32 -lcomdlg32 -luuid -loleaut32 -lole32 } ; if (\$?) { .\1
Enter the y-coordinate for reflection: 250

I) Windows BGI

Original

Reflected

```
OPS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\One
}; if ($?) { .\16 }
7     16     10
```

```
PS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Des
```

```
OPS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desk
```

```
PS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneI
10no }; if ($?) { .\10no }
Enter two integers: 10 12
The GCD of 10 and 12 is: 2
```

```
PS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\D

} ; if ($?) { .\24 }

Quick Sort Execution Time: 0.001000 seconds

Merge Sort Execution Time: 0.001000 seconds

Heap Sort Execution Time: 0.001000 seconds

Sorted Array (Quick Sort first 10 elements): 6 6 6 7 7 10 10 12 13 18

Sorted Array (Merge Sort first 10 elements): 6 6 6 7 7 10 10 12 13 18

Sorted Array (Heap Sort first 10 elements): 6 6 6 7 7 10 10 12 13 18
```

```
PS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\User
} ; if ($?) { .\19 }
● Original array: 64 25 12 22 11
Sorted array: 11 12 22 25 64
```

```
O PS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\One
```

```
PS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\
 }; if ($?) { .\17 }
 Stack Operations:
 10 pushed to stack
 20 pushed to stack
 30 pushed to stack
 Stack: 30 -> 20 -> 10 -> NULL
 Popped element: 30
 Stack: 20 -> 10 -> NULL
 Queue Operations:
 5 enqueued to queue
 15 enqueued to queue
 25 enqueued to queue
 Queue: 5 -> 15 -> 25 -> NULL
 Dequeued element: 5
 Queue: 15 -> 25 -> NULL
```

```
PS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\P

} ; if ($?) { .\23 }

Quick Sort Execution Time: 0.001000 seconds

Merge Sort Execution Time: 0.001000 seconds

Sorted Array (Quick Sort first 10 elements): 3 5 6 7 11 19 24 31 34 35

Sorted Array (Merge Sort first 10 elements): 3 5 6 7 11 19 24 31 34 35
```

```
O PS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop
```

```
PS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\
```

```
PS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA\Paras-Lab> cd "c:\Users
11.c -o 11 } ; if ($?) { .\11 }
The largest element is: 9
```

```
PS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDr
no } ; if ($?) { .\8no }
Factorial of 5 = 120
```

```
PS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneDrive\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop
```

```
PS C:\Users\ASUS\OneDrive\Desktop\Paras-DSA> cd "c:\Users\ASUS\OneD no } ; if ($?) { .\9no } Enter the term (n): 5 Fibonacci series up to 5-th term: 0 1 1 2 3 5
```