

```

1 C:\Users\viswa\PycharmProjects\pythonProject2\venv\
  Scripts\python.exe C:\Users\viswa\AppData\Local\
  Programs\Python\Python310\Tools\IndexedAvl.py
2 -----
3 -----MENU-----
4 --- 1: Insert data from excel      ---
5 --- 2: Delete data from memory    ---
6 --- 3: Search data from memory    ---
7 --- 4: Get value from indices     ---
8 --- 5: Get Indices from values    ---
9 --- 6: Print Inorder Traversal    ---
10 --- 7: Print Preorder Traversal   ---
11 --- 8: Print Postorder Traversal  ---
12 --- 9: Print levelorder Traversal ---
13 --- 10: Print Time for opertion   ---
14 -----
15 -----
16 Enter your option 1
17 Press 0 to go back to menu or any integer to exit 0
18 -----
19 -----MENU-----
20 --- 1: Insert data from excel      ---
21 --- 2: Delete data from memory    ---
22 --- 3: Search data from memory    ---
23 --- 4: Get value from indices     ---
24 --- 5: Get Indices from values    ---
25 --- 6: Print Inorder Traversal    ---
26 --- 7: Print Preorder Traversal   ---
27 --- 8: Print Postorder Traversal  ---
28 --- 9: Print levelorder Traversal ---
29 --- 10: Print Time for opertion   ---
30 -----
31 -----
32 Enter your option 6
33 2 6 7 10 12 13 13 16 17 19 22 23 28 28 29 30 32 34 36
   39 40 43 44 47 48 49 50 51 52 56 61 62 62 66 68 69
   70 71 72 76 76 80 81 83 84 87 88 90 94 95 97
34 Press 0 to go back to menu or any integer to exit 0
35 -----
36 -----MENU-----
37 --- 1: Insert data from excel      ---

```

```

38 --- 2: Delete data from memory    ---
39 --- 3: Search data from memory    ---
40 --- 4: Get value from indices     ---
41 --- 5: Get Indices from values    ---
42 --- 6: Print Inorder Traversal    ---
43 --- 7: Print Preorder Traversal   ---
44 --- 8: Print Postorder Traversal  ---
45 --- 9: Print levelorder Traversal ---
46 --- 10: Print Time for opertion   ---
47 -----
48 -----
49 Enter your option 7
50 49 2 6 7 10 12 13 13 16 17 19 22 23 28 28 29 30 32 34
    36 39 40 43 44 47 48 50 51 52 56 61 62 62 66 68 69
    70 71 72 76 76 80 81 83 84 87 88 90 94 95 97
51 Press 0 to go back to menu or any integer to exit 0
52 -----
53 -----MENU-----
54 --- 1: Insert data from excel     ---
55 --- 2: Delete data from memory    ---
56 --- 3: Search data from memory    ---
57 --- 4: Get value from indices     ---
58 --- 5: Get Indices from values    ---
59 --- 6: Print Inorder Traversal    ---
60 --- 7: Print Preorder Traversal   ---
61 --- 8: Print Postorder Traversal  ---
62 --- 9: Print levelorder Traversal ---
63 --- 10: Print Time for opertion   ---
64 -----
65 -----
66 Enter your option 8
67 2 6 7 10 12 13 13 16 17 19 22 23 28 28 29 30 32 34 36
    39 40 43 44 47 48 50 51 52 56 61 62 62 66 68 69 70
    71 72 76 76 80 81 83 84 87 88 90 94 95 97 49
68 Press 0 to go back to menu or any integer to exit 0
69 -----
70 -----MENU-----
71 --- 1: Insert data from excel     ---
72 --- 2: Delete data from memory    ---
73 --- 3: Search data from memory    ---
74 --- 4: Get value from indices     ---

```

```

75 --- 5: Get Indices from values ---
76 --- 6: Print Inorder Traversal ---
77 --- 7: Print Preorder Traversal ---
78 --- 8: Print Postorder Traversal ---
79 --- 9: Print levelorder Traversal ---
80 --- 10: Print Time for opertion ---
81 -----
82 -----
83 Enter your option 9
84 49 28 72 13 39 62 87 10 19 32 44 56 69 81 94 6 13 17
    23 29 36 43 48 51 62 68 71 76 84 90 97 2 7 12 16 22
    28 30 34 40 47 50 52 61 66 70 76 80 83 88 95
85 Press 0 to go back to menu or any integer to exit 0
86 -----
87 -----MENU-----
88 --- 1: Insert data from excel ---
89 --- 2: Delete data from memory ---
90 --- 3: Search data from memory ---
91 --- 4: Get value from indices ---
92 --- 5: Get Indices from values ---
93 --- 6: Print Inorder Traversal ---
94 --- 7: Print Preorder Traversal ---
95 --- 8: Print Postorder Traversal ---
96 --- 9: Print levelorder Traversal ---
97 --- 10: Print Time for opertion ---
98 -----
99 -----
100 Enter your option 4
101 Enter index25
102 49
103 Press 0 to go back to menu or any integer to exit 0
104 -----
105 -----MENU-----
106 --- 1: Insert data from excel ---
107 --- 2: Delete data from memory ---
108 --- 3: Search data from memory ---
109 --- 4: Get value from indices ---
110 --- 5: Get Indices from values ---
111 --- 6: Print Inorder Traversal ---
112 --- 7: Print Preorder Traversal ---
113 --- 8: Print Postorder Traversal ---

```

```

114 --- 9: Print levelorder Traversal ---
115 --- 10: Print Time for opertion ---
116 -----
117 -----
118 Enter your option 2
119 Enter your value to be removed 76
120 Press 0 to go back to menu or any integer to exit 0
121 -----
122 -----MENU-----
123 --- 1: Insert data from excel ---
124 --- 2: Delete data from memory ---
125 --- 3: Search data from memory ---
126 --- 4: Get value from indices ---
127 --- 5: Get Indices from values ---
128 --- 6: Print Inorder Traversal ---
129 --- 7: Print Preorder Traversal ---
130 --- 8: Print Postorder Traversal ---
131 --- 9: Print levelorder Traversal ---
132 --- 10: Print Time for opertion ---
133 -----
134 -----
135 Enter your option 7
136 49 2 6 7 10 12 13 13 16 17 19 22 23 28 28 29 30 32
    34 36 39 40 43 44 47 48 50 51 52 56 61 62 62 66 68
    69 70 71 72 76 80 81 83 84 87 88 90 94 95 97
137 Press 0 to go back to menu or any integer to exit 0
138 -----
139 -----MENU-----
140 --- 1: Insert data from excel ---
141 --- 2: Delete data from memory ---
142 --- 3: Search data from memory ---
143 --- 4: Get value from indices ---
144 --- 5: Get Indices from values ---
145 --- 6: Print Inorder Traversal ---
146 --- 7: Print Preorder Traversal ---
147 --- 8: Print Postorder Traversal ---
148 --- 9: Print levelorder Traversal ---
149 --- 10: Print Time for opertion ---
150 -----
151 -----
152 Enter your option 6

```

```

153 2 6 7 10 12 13 13 16 17 19 22 23 28 28 29 30 32 34
    36 39 40 43 44 47 48 49 50 51 52 56 61 62 62 66 68
    69 70 71 72 76 80 81 83 84 87 88 90 94 95 97
154 Press 0 to go back to menu or any integer to exit 0
155 -----
156 -----MENU-----
157 --- 1: Insert data from excel      ---
158 --- 2: Delete data from memory    ---
159 --- 3: Search data from memory    ---
160 --- 4: Get value from indices     ---
161 --- 5: Get Indices from values    ---
162 --- 6: Print Inorder Traversal    ---
163 --- 7: Print Preorder Traversal   ---
164 --- 8: Print Postorder Traversal  ---
165 --- 9: Print levelorder Traversal ---
166 --- 10: Print Time for opertion   ---
167 -----
168 -----
169 Enter your option 5
170 Enter value28
171 12 13
172 Press 0 to go back to menu or any integer to exit 0
173 -----
174 -----MENU-----
175 --- 1: Insert data from excel      ---
176 --- 2: Delete data from memory    ---
177 --- 3: Search data from memory    ---
178 --- 4: Get value from indices     ---
179 --- 5: Get Indices from values    ---
180 --- 6: Print Inorder Traversal    ---
181 --- 7: Print Preorder Traversal   ---
182 --- 8: Print Postorder Traversal  ---
183 --- 9: Print levelorder Traversal ---
184 --- 10: Print Time for opertion   ---
185 -----
186 -----
187 Enter your option 5
188 Enter value13
189 5 6
190 Press 0 to go back to menu or any integer to exit 6
191

```

```
192 Process finished with exit code 0
193
```