**NAME: AMMAD AMIR**

**ROLL NO: p176119**

**THE INDIVIDUAL PATHS IN THE GRAPH:**

P1 = [7,9,10,11,13,14,17,19,21], [22,23,24,25,26,27,30,32,34,35], [37], [38], [40], [75], [77], [80], [90], [92], [94], [95], [96], [99], [112]

P2 = [7,9,10,11,13,14,17,19,21], [22,23,24,25,26,27,30,32,34,35], [37], [38], [45,46,47,48,49], [51,53], [56], [58,59], [70], [75], [77], [80], [90], [92], [94],[95],[96],[99],[112]

P2 = [7,9,10,11,13,14,17,19,21], [22,23,24,25,26,27,30,32,34,35], [37], [38], [45,46,47,48,49], [51,53], [56], [58,59], [70], [75], [77], [84,85], [86], [87], [90], [92], [94],[95],[96],[99],[112]

P3 = [7,9,10,11,13,14,17,19,21], [22,23,24,25,26,27,30,32,34,35], [37], [38], [45,46,47,48,49], [51,53], [56], [63,64,65,66,67,68], [70], [75], [77], [80], [90], [92], [94],[95],[96],[99],[112]

P4= [7,9,10,11,13,14,17,19,21], [22,23,24,25,26,27,30,32,34,35], [37], [38], [40], [75], [77], [80], [90], [92], [94], [95], [96],[103], [105], [109], [110], [112]

P5 = [7,9,10,11,13,14,17,19,21], [22,23,24,25,26,27,30,32,34,35], [37], [38], [40], [75], [77], [80], [90], [92], [94], [95], [96], [103],[108],[109][110],[112]

**GRAPH CODE (DOT)**

digraph workFlow{

"7,9,10,11,13,14,17,19,21" -> "22,23,24,25,26,27,30,32,34,35" -> "37" -> "38"->"40" "38" -> "45,46,47,48,49" -> "51, 53" -> "56" -> "58,59" "56" -> "63,64,65,66,67,68" -> "70" "58,59" -> "70" -> "75" "40" -> "75" -> "77" -> "80" "77" -> "84,85" -> "86" -> "87" -> "90" "80" -> "90" -> "92" -> "94,95" -> "96" -> "99" "96" -> "103" -> "105" "103" -> "108" "105" -> "109" "108" -> "109" -> "110" -> "112" "99"->"112";

}