Generating Decision Tree for Monks1 Test Dataset for depth: 1

$$0:-1=-1 \Rightarrow 5:[-1, -1, -1, -1, -1, -1, -1]$$

Generating Decision Tree for Monks1 Test Dataset for depth: 2

$$0:-1=-1 \Rightarrow 5:[-1, -1, -1, -1, -1, -1, -1]$$

$$3:3=1 \Rightarrow 1:[-1, -1, -1, 1, 3, 2, -1]$$

$$3:2=2 \Rightarrow 1:[-1, -1, 2, -1, 2, 2, -1]$$

$$3:2=3 \Rightarrow 1:[-1, -1, 3, -1, 2, 2, -1]$$

$$3:4=1 \Rightarrow 3:[-1, -1, -1, -1, 1, 3, 1]$$

$$3:4=3 \Rightarrow 1:[-1, -1, -1, -1, 3, 3, 1]$$

$$3:2=1 \Rightarrow 3:[-1, 1, 1, -1, -1, 4, -1]$$

$$3:2=1 \Rightarrow 3:[-1, 2, 1, -1, -1, 4, -1]$$

$$3:2=2 \Rightarrow 3:[-1, 2, 2, -1, -1, 4, -1]$$

$$3:2=3 \Rightarrow 3:[-1, 2, 3, -1, -1, 4, -1]$$

$$3:2=1 \Rightarrow 3:[-1, 3, 1, -1, -1, 4, -1]$$

$$3:2=3 \Rightarrow 3:[-1, 3, 3, -1, -1, 4, -1]$$

Generating Decision Tree for Monks2 Test Dataset for depth: 1

Generating Decision Tree for Monks2 Test Dataset for depth: 2

$$0:-1=-1 \Rightarrow 5:[-1, -1, -1, -1, -1, -1, -1]$$

$$1:5=2 \Rightarrow 3:[-1, -1, -1, -1, -1, 2, -1]$$

$$2:3=1 \Rightarrow 6:[-1, -1, -1, 1, -1, 1, -1]$$

$$2:2=1 \Rightarrow 6:[-1, -1, 1, -1, -1, 4, -1]$$

Generating Decision Tree for Monks2 Test Dataset for depth: 3

$$0:-1=-1 \Rightarrow 5:[-1, -1, -1, -1, -1, -1, -1]$$

$$3:4=3 \Rightarrow 1:[-1, -1, -1, 2, 3, 1, -1]$$

$$3:2=2 \Rightarrow 1:[-1, -1, 2, 2, -1, 2, -1]$$

$$3:4=2 \Rightarrow 1:[-1, -1, -1, 2, 2, 3, -1]$$

$$3:6=2 \Rightarrow 1:[-1, -1, 1, -1, -1, 4, 2]$$

$$3:1=1 \Rightarrow 4:[-1, 1, 2, -1, -1, 4, -1]$$

$$3:1=2 \Rightarrow 3:[-1, 2, 2, -1, -1, 4, -1]$$

$$3:3=1 \Rightarrow 4:[-1, -1, 3, 1, -1, 4, -1]$$

Generating Decision Tree for Monks3 Test Dataset for depth: 1

$$0:-1=-1 \Rightarrow 2:[-1, -1, -1, -1, -1, -1, -1]$$

Generating Decision Tree for Monks3 Test Dataset for depth: 2

$$1:2=1 \Rightarrow 5:[-1, -1, 1, -1, -1, -1, -1]$$

Generating Decision Tree for Monks3 Test Dataset for depth: 3

$$0:-1=-1 \Rightarrow 2:[-1, -1, -1, -1, -1, -1, -1]$$

$$3:1=2 \Rightarrow 3:[-1, 2, 2, -1, -1, 1, -1]$$

$$3:1=1 \Rightarrow 3:[-1, 1, 2, -1, -1, 2, -1]$$

$$3:1=2 \Rightarrow 4:[-1, 2, 2, -1, -1, 2, -1]$$

$$3:5=2 \Rightarrow 1:[-1, -1, 3, -1, 1, 2, -1]$$