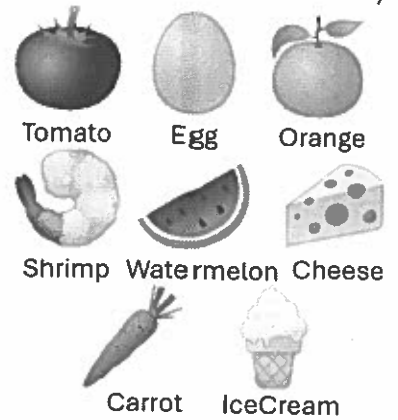
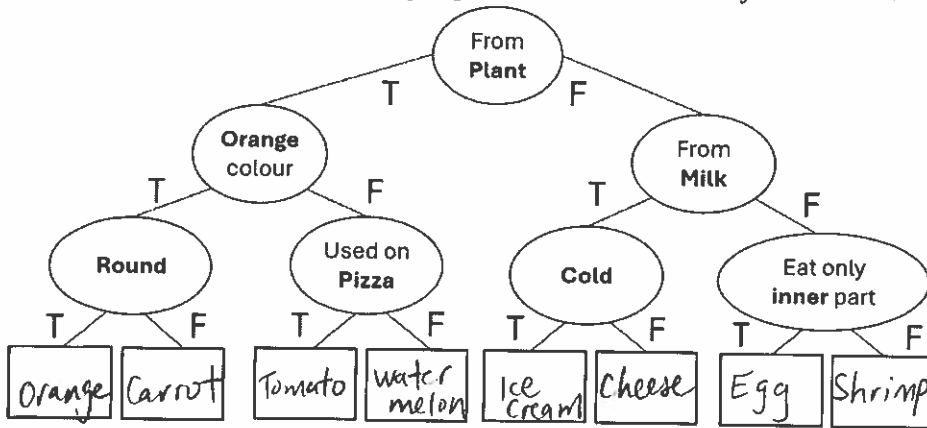


ICD20 – Exam Review – AI, Functions

Name: Gorski /10

1. (a) Fill in the blanks to make the program to build the binary search tree.



(b) Then, use your binary search tree to fill in the program.

```

onEvent("start", "click", function() {
    Plant();
});
//AI Question Functions -----
function Plant() {
    var ans = prompt("From a plant? (T/F)");
    if (ans == "T") {
        Orange();
    } else {
        Milk();
    }
}
function Orange() {
    var ans = prompt("Orange colour (T/F)");
    if (ans == "T") {
        Round();
    } else {
        Pizza();
    }
}
function Round() {
    var ans = prompt("Round? (T/F)");
    if (ans == "T") {
        Orange ();
    } else {
        Carrot ();
    }
}
function Pizza() {
    var ans = prompt("Used on pizza? (T/F)");
    if (ans == "T") {
        Tomato ();
    } else {
        Watermelon ();
    }
}
function Milk() {
    var ans = prompt("Made with milk? (T/F)");
    if (ans == "T") {
        Cold ();
    } else {
        Inner ();
    }
}

```

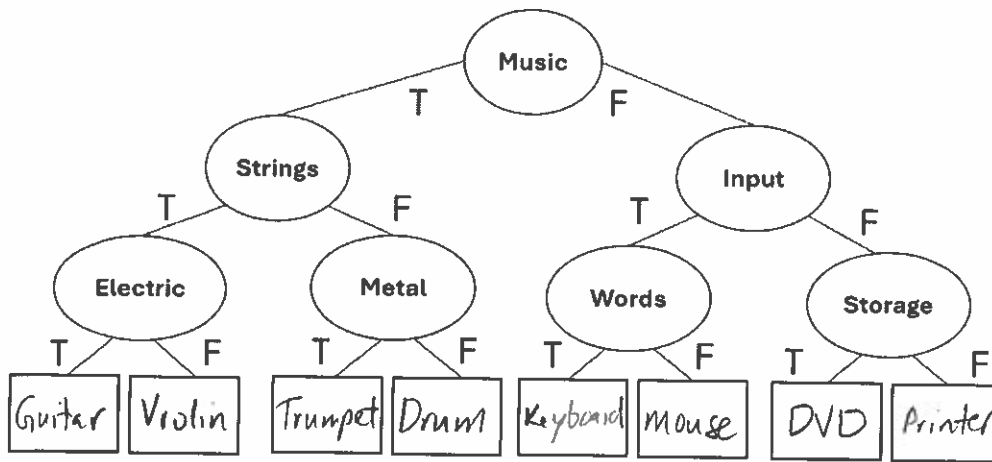
//Code Continued:

```

function Cold() {
    var ans = prompt("Very cold? (T/F)");
    if (ans == "T") {
        Ice Cream ();
    } else {
        Cheese ();
    }
}
function Inner() {
    var ans = prompt("Eat only inside? (T/F)");
    if (ans == "T") {
        Egg ();
    } else {
        Shrimp ();
    }
}
//Food Functions (Leaves) -----
function Tomato() {
    setText("output", "Tomato");
}
function Egg() {
    setText("output", "Egg");
}
function Orange() {
    setText("output", "Orange");
}
function Shrimp() {
    setText("output", "Shrimp");
}
function Watermelon() {
    setText(" output ", "Watermelon");
}
function Chees() {
    setText ("output", "Cheese");
}
function Carrot() {
    setText("output", "Carrot");
}
function IceCream() {
    setText("output", "Ice Cream");
}

```

2. (a) Fill in the blanks to make the program to build the binary search tree.



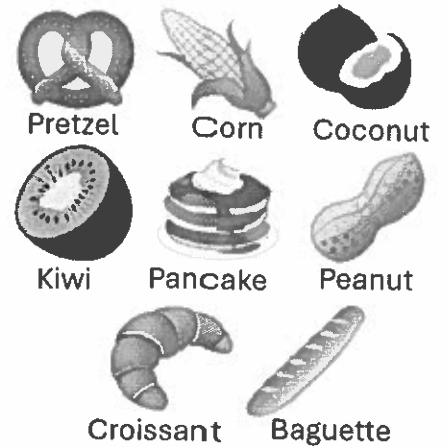
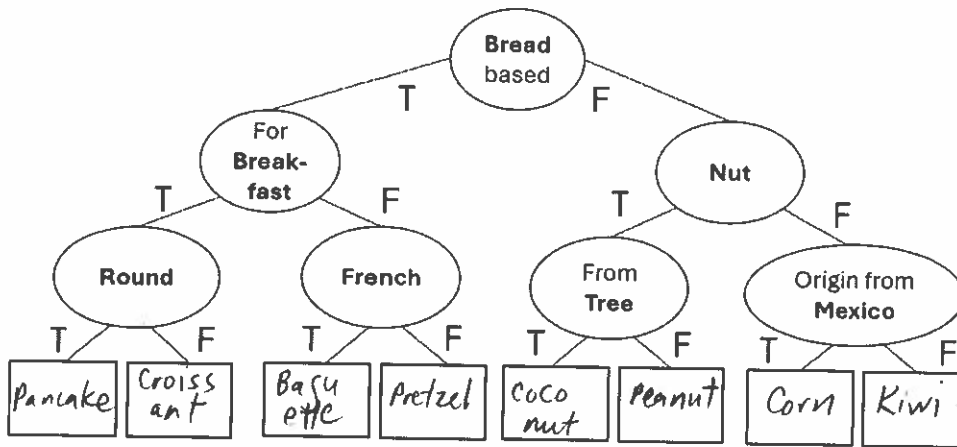
(b) Then, use your binary search tree to fill in the program.

```

onEvent("start", "click", function() {
    Music();
});
//AI Question Functions -----
function Music() {
    var ans = prompt("Musical Instrument? (T/F)");
    if (ans == "T") {
        Strings();
    } else {
        Input();
    }
}
function Strings() {
    var ans = prompt("In Strings section? (T/F)");
    if (ans == "T") {
        Electric();
    } else {
        Metal();
    }
}
function Electric() {
    var ans = prompt("Uses electricity? (T/F)");
    if (ans == "T") {
        Guitar ();
    } else {
        Violin ();
    }
}
function Metal() {
    var ans = prompt("In brass section? (T/F)");
    if (ans == "T") {
        Trumpet ();
    } else {
        Drum ();
    }
}
function Input () {
    var ans = prompt("Computer input? (T/F)");
    if (ans == "T") {
        Words ();
    } else {
        Storage ();
    }
}
//Code Continued:
function Words() {
    var ans = prompt("Inputs text? (T/F)");
    if (ans == "T") {
        Keyboard ();
    } else {
        Mouse ();
    }
}
function Storage () {
    var ans = prompt("Computer storage? (T/F)");
    if (ans == "T") {
        DVD ();
    } else {
        Printer ();
    }
}
//Object Functions (Leaves) -----
function Keyboard() {
    setText("output", "Keyboard");
}
function DVD () {
    setText("output", "DVD");
}
function Violin() {
    setText("output", "Violin");
}
function Guitar() {
    setText("output", "Guitar");
}
function Drum() {
    setText(" output ", "Drum");
}
function Trumpet () {
    setText ("output", "Trumpet");
}
function Printer() {
    setText("output", "Printer");
}
function Mouse() {
    setText("output", "Mouse");
}
    
```

3. (a) Fill in the blanks to make the program to build the binary search tree.

/10



(b) Then, use your binary search tree to fill in the program.

```

onEvent("start", "click", function() {
    Bread();
});
//AI Question Functions -----
function Bread() {
    var ans = prompt("Bread based ?(T/F)");
    if (ans == "T") {
        Breakfast();
    } else {
        Nut();
    }
}
function Breakfast() {
    var ans = prompt("for Breakfast ?(T/F)");
    if (ans == "T") {
        Round();
    } else {
        French();
    }
}
function Round() {
    var ans = prompt("Round Shape?(T/F)");
    if (ans == "T") {
        Pancake();
    } else {
        Croissant();
    }
}
function French() {
    var ans = prompt("Eaten in France ?(T/F)");
    if (ans == "T") {
        Baguette();
    } else {
        Pretzel();
    }
}
function Nut() {
    var ans = prompt("Nut ?(T/F)");
    if (ans == "T") {
        Tree();
    } else {
        Mexico();
    }
}

```

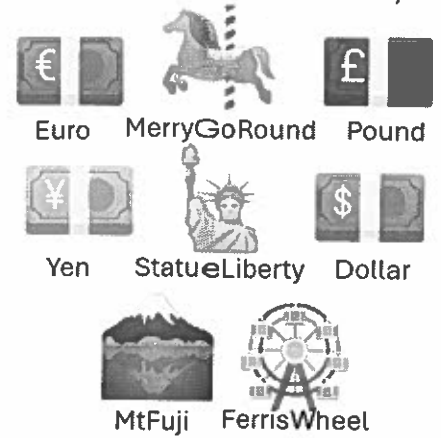
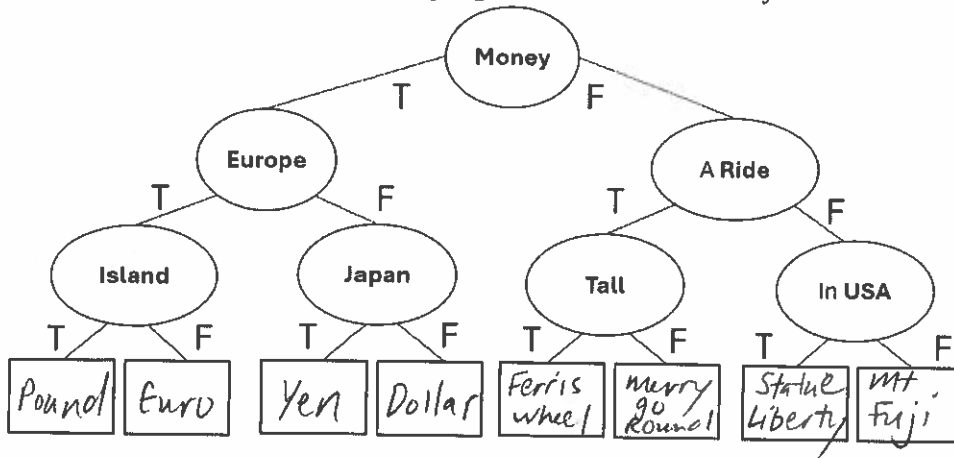
```

//Code Continued:
function Tree() {
    var ans = prompt("from a tree ?(T/F)");
    if (ans == "T") {
        Coconut();
    } else {
        Peanut();
    }
}
function Mexico() {
    var ans = prompt("origin in Mexico?(T/F)");
    if (ans == "T") {
        Corn();
    } else {
        Kiwi();
    }
}
//Food Functions (Leaves) -----
function Pretzel() {
    setText("output", "Pretzel");
}
function Corn() {
    setText("output", "Corn");
}
function Coconut() {
    setText("output", "Coconut");
}
function Kiwi() {
    setText("output", "Kiwi");
}
function Pancake() {
    setText("output", "Pancake");
}
function Peanut() {
    setText("output", "Peanut");
}
function Croissant() {
    setText("output", "Croissant");
}
function Baguette() {
    setText("output", "Baguette");
}

```

4. (a) Fill in the blanks to make the program to build the binary search tree.

/10



(b) Then, use your binary search tree to fill in the program.

```

onEvent("start", "click", function() {
    Money ();
});
//AI Question Functions -----
function USA() {
    var ans = prompt("In USA ?(T/F)");
    if (ans == "T") {
        StatueLiberty ();
    } else {
        MtFuji ();
    }
}
function Japan() {
    var ans = prompt("From Japan ?(T/F)");
    if (ans == "T") {
        Yen ();
    } else {
        Dollar ();
    }
}
function Europe() {
    var ans = prompt("In Europe ?(T/F)");
    if (ans == "T") {
        Island ();
    } else {
        Japan ();
    }
}
function Island() {
    var ans = prompt("From Island ?(T/F)");
    if (ans == "T") {
        Pound ();
    } else {
        Euro ();
    }
}
function Tall() {
    var ans = prompt("Tall/High ?(T/F)");
    if (ans == "T") {
        FerrisWheel ();
    } else {
        MerryGoRound ();
    }
}
//Code Continued:
function Money() {
    var ans = prompt("Is it money ?(T/F)");
    if (ans == "T") {
        Europe ();
    } else {
        Ride ();
    }
}
function Ride() {
    var ans = prompt("Is it a ride ?(T/F)");
    if (ans == "T") {
        Tall ();
    } else {
        USA ();
    }
}
//Travel Functions (Leaves) -----
function Euro() {
    setText("output", "EU Euro");
}
function Pound() {
    setText ("output", "British Pound");
}
function Yen() {
    setText(" output ", "Japanese Yen");
}
function Dollar() {
    function ("output", "American Dollar");
}
function StatueLiberty() {
    setText("output", "Statue of Liberty");
}
function MtFuji() {
    setText(" output ", "Japan's Mt Fuji");
}
function MerryGoRound() {
    setText("output", "Merry Go Round");
}
function FerrisWheel() {
    setText (" output ", "Ferris Wheel");
}

```