2/11/2021

W1D3 Selection Assignment

1. Write a program that helps a user choose the correct footwear for the day’s weather based on

the table shown below. If the user enters any other weather type, your program should output

“sneakers”

**Weather Footwear**

**hot** sandals

**rain** galoshes

**snow** boots

2. Write a program that reads from the keyboard a student's name and number of completed

credits and then outputs the student's name and label on following rules:

a. "Freshman" if 0<credits<30

b. "Sophomore" if 30<=credits<60

c. "Junior" if 60<=credits<90

d. "Senior" if credits>90

3. Write a program that calculates down payment for a home loan based on following rules.

**Cost of House Down Payment**

**$0 to less than 50K** 5% of the cost

**$50K to less than 100K** $1000 + 10% of (cost - $50K)

**$100K to less than 200K** $2000 + 15% of (cost - $100K)

**$200K and above** $5000 + 10% of (cost - $200K)

4. A university library that loans book to students, faculty, and the public has a written policy that

determines how long someone may borrow a book before it is due, which is shown on the table

below. Write a defining table and JavaScript program that determines how long a person may

borrow a book.

Status Number of books Overdue Loan duration in weeks

Student 0 6

fewer than 3 4

3 or more 2

Faculty 0 12

fewer than 3 10

3 or more 8

Other 0 4

fewer than 3 3

3 or more 2

5. Write a defining table and then a program that determines what time a child should go to bed.

Your program must read a child’s age and the season (winter, spring, summer, or fall) from the

keyboard and output the child’s bedtime according to this table:

**Age Season Bed Time**

**5 or younger** summer, fall 8:30 PM

winter, spring 8:00 PM

**6 to 12** summer 9:30 PM

winter, spring, fall 8:30 PM

**13 and older** summer 10:30 PM

winter, spring, fall 9:30 PM

From Reading

1. What happens when you forget a break while using switch statement?

2. What will be the output of running following code?

var foo = 0;

switch (foo) {

case -1:

console.log('negative 1');

break;

case 0:

console.log(0);

case 1:

console.log(1);

break;

case 2:

console.log(2);

break;

default:

console.log('default');

}

3. Will output change if value of foo is a ‘0’ (0 in quotes) instead?