IF…ELSE & ELSE IF STATEMENTS, TESTING SET OF CONDITIONS & SWITCH STATEMENTS
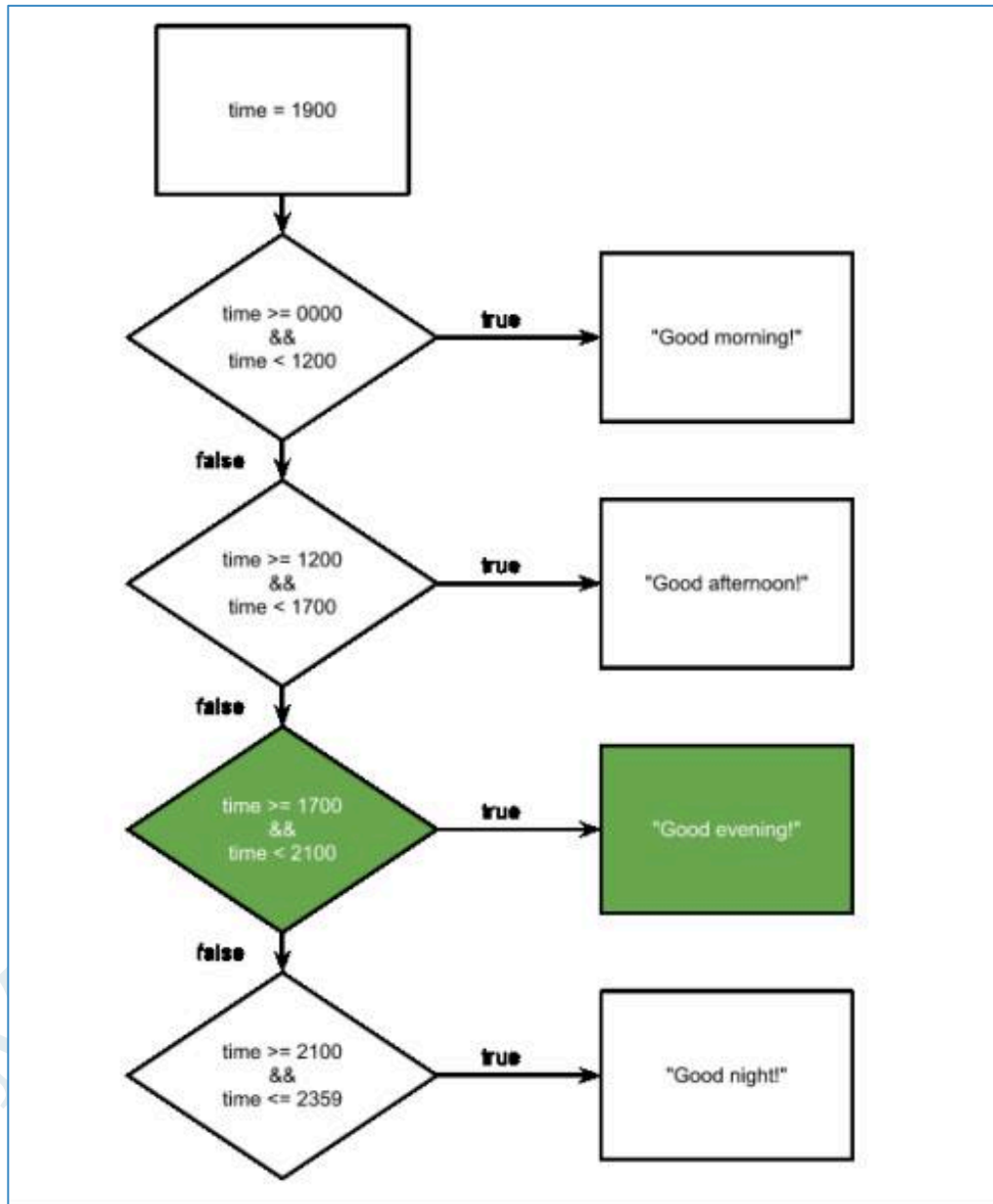
Assignment # 12-13

JAVASCRIPT

MODULE A - Mobile & Cloud Computing

| IF…ELSE & ELSE IF STATEMENTS | TESTING SET OF CONDITIONS |
| SWITCH STATEMENTS |

1. Write a program to check whether the given input number is divisible by 3 or else show a message "Number is not divisible by 3".

2. Write a program that checks whether the given input is an even number or an odd number.

3. Write an if/else statement with the following condition:
   If the variable age is greater than 18, output "Old enough", otherwise output "Too young".

4. Write a program that prompts the user for their name, and then displays a special greeting to that person if their name is the same as yours. If the name entered by the user is anything other than your name, your code should not produce any output.

5. Write a program to check whether the given input number is divisible by 3 or not by using Switch Case statements. Show a message "Number is not divisible by 3" or "Number is divisible by 3".

6. Write a program that takes a character(number or string) in a variable & checks whether the given input is a number, uppercase letter or lower case letter. (Hint: ASCII codes:- A=65, Z=90, a=97, z=122)

7. Write a program to create a calculator for +, -, *, /, % using switch case statements. (number1, number2 and operator will be input)

8. Write a program that takes time as input from user in 24 hours clock format like: 1900 = 7pm. Implement the following case using if, else & else if statements

9. Write a program that takes a calendar year in YYYY format in a variable. Check & notify the user whether it is a leap year or not.

10. Write a program that
    a. Store correct password in a JS variable.
    b. Asks user to enter his/her password
    c. Validate the two passwords:
        i. Check if user has entered password. If not, then give message " Please enter your password"
        ii. Check if both passwords are same. If they are same, show message "Correct! The password you entered matches the original password". Show "Incorrect password" otherwise.

11. Write a program that adds an else statement to the following script to display "You are not Fahad"

```
var firstName = "Ali";
if (firstName === "Fahad") {
    document.write("Hello Fahad!");
}
```

12. This if/else statement does not work. Try to fix it:

```
var greeting;
var hour = 13;
if (hour < 18) {
    greeting = "Good day";
else
    greeting = "Good evening";
}
```

13. Write a JavaScript program that accept two integers and display the larger. Also show if the two integers are equal.

14. Write a program that takes input a number from user & state whether the number is positive, negative or zero.

15. Ask the user what the current hour is. If the hour is between 6 and 9 a.m., tell the user, "Breakfast is served." If the hour is between 11 a.m. and 1 p.m., tell the user, "Time for lunch." If the hour is between 5 and 8 p.m., tell the user, "It's dinner time." For any other hours, tell the user, "Sorry, you'll have to wait, or go get a snack." (Hint: Store the hour in 24 hours clock format i.e. 14 for 2pm , 15 for 3pm)

16. Write a program that stores value in a variable & tell whether the type of that variable is a "number", "string", "boolean" or "undefined"

17. Write a program that takes a character (i.e. string of length 1) and returns true if it is a vowel, false otherwise.

18. Choose the correct comparison operator to display "true", when:
10 is NOT equal to 8.

19. Use a *switch* statement to rewrite the following JavaScript code. Prompt the user for the number of a month rather than setting it to 8:

```javascript
month = 8;

if (month == 1) {
    alert("January");
}
 else if (month == 2) {
    alert("February");
}
 else if (month == 3) {
    alert("March");
}
 else if (month == 4) {
    alert("April");
}
 else if (month == 5) {
    alert("May");
}
else if (month == 6) {
    alert("June");
}
 else if (month == 7) {
    alert("July");
}
else if (month == 8) {
    alert("August");
}
else if (month == 9) {
    alert("September");
}
else if (month == 10) {
    alert("October");
}
else if (month == 11) {
    alert("November");
}
else if (month == 12) {
    alert("December");
}
else{
    alert("Invalid month");
}
```

20. Use a **conditional (ternary) operator** for this exercise:
If the variable age is a value below 18, the value of the variable

voteable should be "Too young",
otherwise the value of voteable should be "Old enough".

-- **END** --