**Day 2 Lab**

1. Make a function that takes today’s temperature as a parameter, prints: “HOT” if the entered temperature are more than or equals 30 and “Cold” if it’s less than 30 (use ternary conditional operator).
2. Change the previous function to take 2 parameters: Temperature and Actual feel temperature to have 3 cases:
   1. Prints normal if both of temperature and actualFeel between 25 and 30.
   2. Prints Cold if both of temperature and actualFeel less than 25.
   3. Prints Hot if both of temperature and actualFeel higher than 30.

Can you use ternary conditional operator in previous example? Why?

1. Make a function that takes Student faculty as a parameter, checks:
   1. If the entered faculty: FCI, show message: “You’re eligible to Programing tracks”.
   2. If the entered faculty: Engineering, show message: “You’re eligible to Network and Embedded tracks”.
   3. If the entered faculty: Commerce, show message: “You’re eligible to ERP and Social media tracks”.
   4. For any other faculty, show message: “You’re eligible to SW fundamentals track”.

Use switch().

1. Write a function that takes 2 parameters: start and end number and print odd numbers between the given 2 numbers.
2. On contact page prompt user to enter his name, make sure that name is string, and let the user enter his birth year and make sure that it is a number, and it is less than 2010, and then calculate his age. For each prompt if user input valid show him next prompt, if not valid show him the same prompt again until user enters it correctly (use loops). And after validating user input, write all user input on the page in that format:

**Name:** ahmed

**Birth year:** 1981

**Age:** 30

1. Write a program to check a triangle is equilateral, isosceles or scalene

inputs :x=6 y=8 , z=12

output: scalene

7-Create an array that hold the following students grades: 60, 100,10,15,85, and handle the following:

* 1. find the highest student degree
  2. Print the grades of all students with grades below 60.

***Bouns:***

AliBaba was a son of a merchant. After his father's death, AliBaba married a poor woman and settled into the trade of a woodcutter. One day, AliBaba was at work collecting and cutting firewood in the forest, when he happened to overhear a group of 4040 thieves visiting their treasure store. The treasure was in a cave. When AliBaba went to the cave he found out that he had to solve a puzzle. The puzzle was very easy. AliBaba was given 44 numbers. His task was to check whether he could get the fourth number by using the arithmetic operators (+,−,×) between the other three numbers. Knowing that an operator can be used only once.

***a□b□c=d***

Sadly, AliBaba was really bad at math and he asked you to help him solve this puzzle.

Input a: 3

Input b: 4

Input c: 5

Input d: 23

Output: yes

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Input a: 1

Input b: 2

Input c: 3

Input d: 1

Output: no