

DAILY ONLINE ACTIVITIES SUMMARY

Date:	12 June 2020	Name:	Asha Rudrappa Totagi
Sem& Sec	6 th sem& A sec	USN:	4AL17CS015
Certification Course Summary			
Course	Ethical Hacking		
Certificate Provider	Udemy	Duration	3 hours
Coding Challenges			
<p>Problem Statement</p> <p>Program 1: Write a Python program to implement Magic Square. A magic square of order n is an arrangement of n^2 numbers, usually distinct integers, in a square, such that the n numbers in all rows, all columns, and both diagonals sum to the same constant. A magic square contains the integers from 1 to n^2.</p> <p>The constant sum in every row, column and diagonal is called the magic constant or magic sum, M. The magic constant of a normal magic square depends only on n and has the following value: $M = n(n^2+1)/2$ example Magic Square of size 5 9 3 22 16 15 2 21 20 14 8 25 19 13 7 1 18 12 6 5 24 11 10 4 23 17 Sum in each row & each column = $5*(5^2+1)/2 = 65$</p> <p>Program 2: Write a Java program to find maximum width of a binary tree</p>			
Status: DONE			
Uploaded the report in Github		YES	
If yes Repository name		Daily Status	
Uploaded the report in slack		YES	

Certification Course Details: (Attach the snapshot and briefly write the report for the same)

The screenshot shows a web browser window displaying a Udemy course page. The browser's address bar shows the URL: `udemy.com/course/hacking-real-websites-legally-2/learn/lecture/17062446?start=0#overview`. The page header includes the Udemy logo and the course title "Learn Ethical Hacking By Hacking Real Websites Legally". Below the header, there is a video player showing a lecture titled "Basic 9". The video player has a play button in the center. To the right of the video player, there is a "Course content" sidebar. The sidebar lists the course sections and their durations. The first section is "Section 1: Introduction" (2 / 2 | 6min), which includes two lectures: "1. Introduction" (4min) and "2. Signing up for a free hacking account with HackThisSite.org" (3min). The second section is "Section 2: Basic Missions" (11 / 11 | 1hr 22min), which includes two lectures: "3. Basic 1 (Code exposure vulnerability)" (8min) and "4. Basic 2 (PHP read failure vulnerability)" (9min). Below the video player, there are tabs for "Overview", "Q&A", "Bookmarks", and "Announcements". At the bottom of the page, there is a Windows taskbar with the search bar and several application icons. The system clock in the bottom right corner shows the time as 8:58 PM on 11/06/2020.

Welcome to Udey! - ashartotat... x Learn Ethical Hacking By Hacking x +

udemy.com/course/hacking-real-websites-legally-2/learn/lecture/17062446?start=0#overview

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hackthissite.org/miscon/10402

Basic 9

This time Sam used a more temporary and "hidden" approach to authenticating users, but he didn't think about whether or not those users knew their way around javascript...

Basic 10

Sam decided to make a mistake. Unfortunately he does not understand Apache. This mission is a bit harder than the other basics.

Basic 11

Course content

Section 1: Introduction 2 / 2 | 6min

1. Introduction 4min

2. Signing up for a free hacking account with HackThisSite.org 3min Resources

Section 2: Basic Missions 11 / 11 | 1hr 22min

3. Basic 1 (Code exposure vulnerability) 8min

4. Basic 2 (PHP read failure vulnerability) 9min Resources

About this course

Type here to search

8:58 PM 11/06/2020

DAY 2 (12-06-2020) - Introduction to ethical hacking and basic missions to hack.

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

Program 1:

```
def generateSquare(n):  
    magicSquare = [[0 for x in range(n)]  
                   for y in range(n)]  
  
    i = n / 2  
    j = n - 1  
    num = 1  
    while num <= (n * n):  
        if i == -1 and j == n:  
            j = n - 2  
            i = 0  
        else:  
            if j == n:  
                j = 0  
            if i < 0:  
                i = n - 1  
            if magicSquare[int(i)][int(j)]:  
                j = j - 2  
                i = i + 1  
                continue  
            else:  
                magicSquare[int(i)][int(j)] = num  
                num = num + 1
```

```

        j = j + 1

        i = i - 1

    print ("Magic Square for n =", n)

    print ("Sum of each row or column",n * (n * n + 1) / 2, "\n")

    for i in range(0, n):

        for j in range(0, n):

            print('%2d ' % (magicSquare[i][j]),end = ")

            if j == n - 1:

                print()

n=int(input("Number of rows of the Magic Square:"))

generateSquare(n)

```

Program 2:

```

import java.util.LinkedList;
import java.util.Queue;

public class Main {
    public static class Node{
        int data;
        Node left;
        Node right;

        public Node(int data){
            this.data = data;
            this.left = null;
            this.right = null;
        }
    }

    public Node root;

    public Main(){
        root = null;
    }
}

```

```

    }
    public int findMaximumWidth() {
        int maxWidth = 0;
        int nodesInLevel = 0;
        Queue<Node> queue = new LinkedList<Node>();
        if(root == null) {
            System.out.println("Tree is empty");
            return 0;
        }
        else {
            queue.add(root);

            while(queue.size() != 0) {
                nodesInLevel = queue.size();
                maxWidth = Math.max(maxWidth, nodesInLevel);
                while(nodesInLevel > 0) {
                    Node current = queue.remove();
                    if(current.left != null)
                        queue.add(current.left);
                    if(current.right != null)
                        queue.add(current.right);
                    nodesInLevel--;
                }
            }
        }
        return maxWidth;
    }

    public static void main(String[] args) {

        Main bt = new Main();
        bt.root = new Node(1);
        bt.root.left = new Node(2);
        bt.root.right = new Node(3);
        bt.root.left.left = new Node(4);
        bt.root.left.right = new Node(5);
        bt.root.right.left = new Node(6);
        bt.root.right.right = new Node(7);
        bt.root.left.left.left = new Node(8);
        System.out.println("Maximum width of the binary tree: " + bt.findMaximumWidth());
    }

```

} }