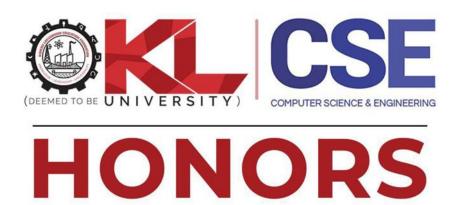


20CS3041AA – CRYPT ANALYSIS AND CYBER DEFENCE

SKILL WORKBOOK

TEAM CRYPT ANALYSIS AND CYBER DEFENCE

KONERU LAKSHMAIAH EDUCATION FOUNDATION | 20CS3041AA – CRYPT ANALYSIS AND CYBER DEFENCE



SKILLING WORKBOOK

STUDENT NAME	RAMU SINGAMSETTY
REG. NO	
YEAR	3
SEMESTER	1
SECTION	
FACULTY NAME	

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Organization of the STUDENT SKILL WORKBOOK

The laboratory framework includes a creative element but shifts the timeintensive aspects outside of the Two-Hour closed laboratory period. Within this structure, eachlaboratory includes three parts: Pre-skill, Inskill, and post-skill.

a. Pre-Skill

The Pre-skill exercise is a homework assignment that links the lecture with the skilling period - typically takes 2 hours to complete. The goal is to synthesize the information they learn in lecture with material from their textbook to produce a working piece of software. Prelab Students attending a two-hour closed laboratory are expected to make a good-faith effort to complete the Pre-skill exercise before coming to the lab. Their work need not be perfect, but their effort must be real (roughly 80 percent correct).

b. In-Skill

The In-skill section takes place during the actual skilling period. The First hour of the skilling period can be used to resolve any problems the students might have experienced in completing the Pre-skill exercises. The intent is to give constructive feedback so that students leave the lab with working Pre-skill software - a significant accomplishment on their part. During the second hour, students complete the In-skill exercise to reinforce the concepts learned in the Pres-kill. Students leave the lab having received feedback on their Pre-skill and In-skill work.

c. Post-Skill

The last phase of each skilling class is a homework assignment that is done following the skilling period. In the Post-skill, students analyse the efficiency or utility of a given system call. Each Post-lab exercise should take roughly 120 minutes to complete.

			SKILLING EVALUATION		Viva Voce	Total	Faculty	
S. No	Date	Experiment Name	EXECUTION (10M)	RESULT (10M)	ANALYSIS (20M)	(10M)	(50M)	Signature
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

		SKILLING EVALUATION		Viva Voce	Total	Faculty		
S. No	Date	Experiment Name	EXECUTION (10M)	RESULT (10M)	ANALYSIS (20M)	(10M)	(50M)	Signature
11								
12								
13								
14								
15								

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SUBJECT CODE: 20CS3041AA CRYPTANALYSIS AND CYBER DEFENCE WORKBOOK

1. Installing Virtual Box and Creating a Virtual install of Kali Linux

Date of the Session://	Session Time:	to
Learning outcome:		
 Understanding of OS virtualization Understanding how to setup Virtual Box Understanding how to setup Kali Linux 		
Pre-Skill Task: 1. Explain about OS virtualization?		
It is the process of intalling a virtual operating system on th virtualization techniques and suitable softwares	e existing host operating sys	stem using
2. Explain what is hypervisor?		
Hypervisor is a software that installs and runs th virtualisation of the guest operating system.	ne virtual machines and	supports the
3. Explain the Types of hypervisors?		
There are mainly two types of hypervisors namely Bar	e metal and hosted.	
Bare metal: The type of hyoervisor which makes the gue of the system i.e it also runs the software on the physic	± •	-

Hosted Hypervisor: Unlike the bare metal type this hypervisor runs the virtual machine as a computer program rather than running parlelly on the physical configuration of the system.

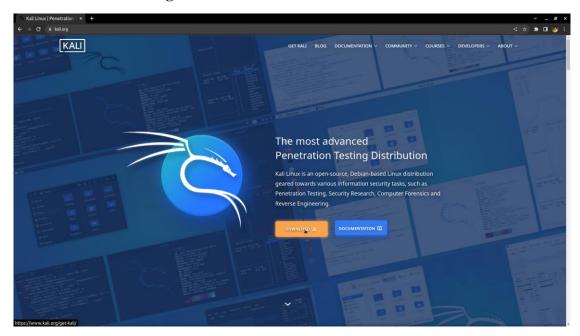
In-Skill Task:

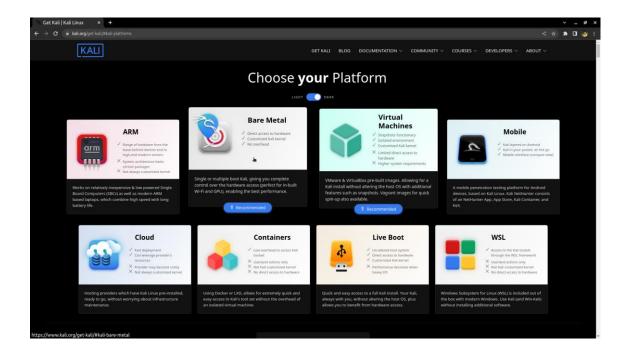
Harsha a technology evangelist has just started learning about OS virtualization and interested in learning ethical hacking as Harsha a newbie in this you was requested by Harsha to help him to install Kali Linux in his computer using Virtual Box

Writing space for the Problem:(For Student's use only)

Solution:

Download the virtual image from the official kali website and select bare metal. Kali.org







https://www.kali.org/get-kali/#kali-bare-metal

Now let us install the virtual box



Install the virtualbox as with the same installation steps as any other software.

Post-S	kill	Task:
--------	------	-------

1.	Why Kali Linux is newbie friendly for cyber Security enthusiast? Because it has all the components that a newbie needs like, friendly ui and easy to use

- 2. What are different types of Linux Distro's available? We have other os like Ubuntu, Feroda, Arch Linux, Parrot os, mint, Solarix, etc.
- 3. List some security focused Linux Distro's available.
 We have other security focused linux distro's like Parrot os, Black Arch Linux,
 Backbox linux etc.

(For Evaluator's use only)

Comment of the Evaluator (if Any)	Evaluator's Observation
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SUBJECT CODE: 20CS3041AA CRYPT ANALYSIS AND CYBER DEFENCE WORKBOOK

2. Implementation of Packet Capturing Using Airodump-ng

Date of the Session://	Time of the Session:	to
 Learning Outcomes: To understand the concept of Data Sniffi To understand how to use Airodump-ng 	C	
Pre-Skill Task:		
1.What is Airodump-ng?		
Airodump-ng is a penetration testing tool which useful for further analysis.	captures raw data packets which	ch might be

2. What is capture handshake?

Handshake is a process of establishing connection between two systems or between a system and a router. Capturing handshake means getting the handshake file which consists of the various keys in order to connect to the access point.

In-Skill Task:

- **1**.Ramesh wants to perform "**CRACKING WEP KEYS**" By using Monitor mode which was available in kali Linux. So, he wants to perform following operations:
- 1.Monitor mode using wifi-adapter
- 2. Capturing packets
- 3. Capturing ARP requests

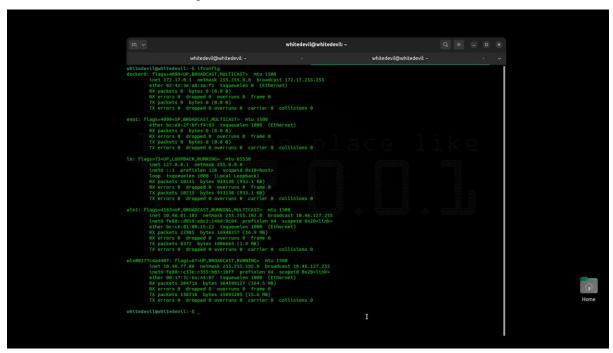
Help him by doing those operations Successfully(If Possible include screenshots of those outputs)

Solution:

1. Monitor mode using wifi-adapter

For this we need to use if config and we need to know the device/ interface name.

Go to terminal and hit if config and enter it shows the list of interfaces and its status.



in my case the adapter's name is "wlx00177c6a4407"

For putting the device into monitor mode, we need to execute the following command

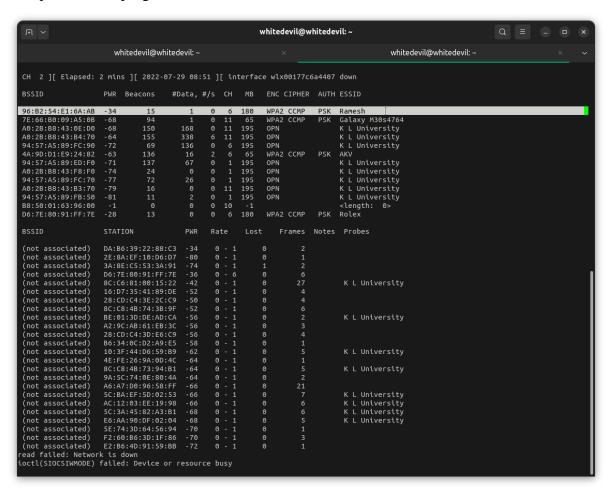
if
config wlx00177c6a4407 down && iwconfig wlx00177c6a4407 mode monitor && if
config wlx00177c6a4407 up

2.

For capturing packets we need the following details: bssid, channel and interface name for knowing the bssid:

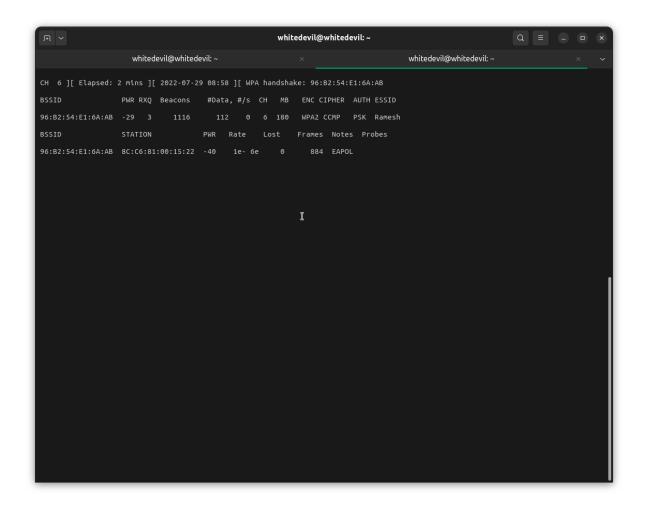
Command: airodump-ng --interface interfacename

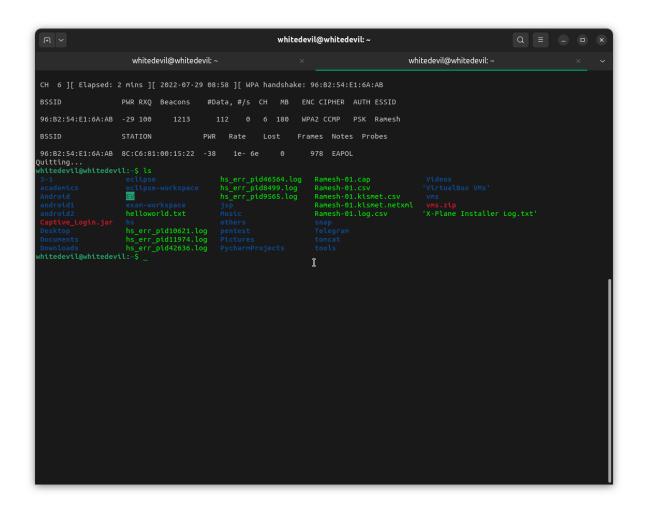
example: airodump-ng --interface wlx00177c6a4407



So we got our bssid, channel, interface name, now we can start capturing packets.

Command: airodump-ng --bssid 96:B2:54:E1:6A:AB --channel 6 wlx00177c6a4407 --write Ramesh





We can observe the files of Ramesh which are out captured files with various information.

3.

(For Evaluator's use only)

(10.278	
Comment of the Evaluator (if Any)	Evaluator's Observation
	Marks Secured:out of
	Full Name of the Evaluator:
	Signature of the Evaluator Date of Evaluation
SUBJECT C	TER SCIENCE AND ENGINEERING CODE: 20CS3041AA
CRYPT ANALYSIS AND	CYBER DEFENCE WORKBOOK
3. Implementation of Social En	gineering Using King Phisher

Date of the Session: / / Time of the Session: to
--

Learning Outcomes:

- To understand the concept of Phishing.
- To understand how to create Phishing websites.

Pre-Skill Task:

1. What are the dangers of Phishing attacks?

2. How can I identify a Phishing attack?
3. Briefly explain about different techniques of Phishing?
4. What are the psychological tricks that attackers employ so that people fall for the Phishing scheme?
5. How to avoid becoming a victim of a Phishing scam?

In-Skill Task:

- 1) Siddharth is a Computer Science Student and he is Naughty. He wants to fool his friend Siva by sending a Fake Mail by King Phisher tool. But he doesn't know that how that tool Works.
- a. He want to learn How the Tool (King Phisher) Works .
- So, Help Siddharth to understand how the Tool Work in a step by step process.

Post-Skil	l Task :
T OSC-DIVIL	ı ıası .

1.	What is	Ghost	Phisher?

2. Name the dependencies that are required in the proper running of Ghost Phisher.

(For Evaluator's use only)

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	Signature of the Evaluator Date of Evaluation

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SUBJECT CODE: 20CS3041AA CRYPT ANALYSIS AND CYBER DEFENCE WORKBOOK

4. Implementation of Social Engineering Using Maltego

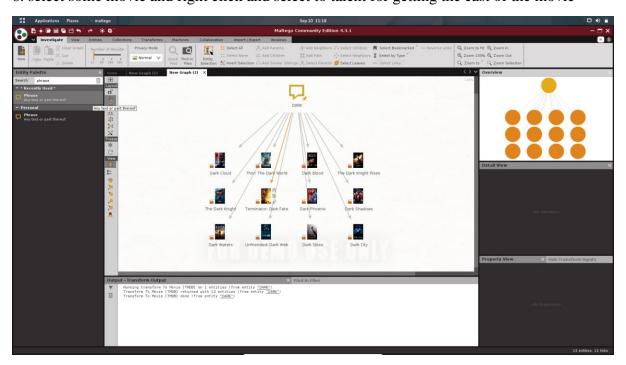
Date of the Session:/_	_/	Time of the Session:	to

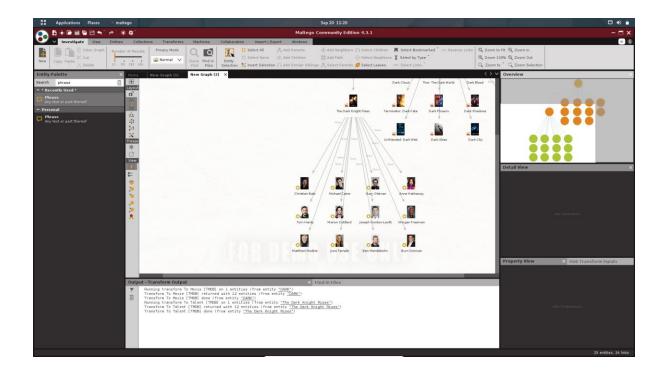
Learning Outcomes:

- To understand vulnerabilities in social Engineering.
- To understand Maltego tool is used to explore the same.

Pre-Skill Task:

- 1. Help Shiny find the movie name that has 'Dark' in it's name. Also find the cast those movies.
- 1. Go to transforms and click on transform hub search for tmdb
- 2. install the transform
- 3. go to investigate and select phrase
- 4. drag and drop and change name to DARK
- 5. right click and search tmdb transform and click on that
- 6. select some movie and right click and select to talent for getting the cast of the movie





- **2.** Surya tried very hard to get a job and applied for many companies but he didn't get any job. One day he got an email offering a job "reports@yahoo.com", he wants to check whether the mail is an original one or a Spam so verify the mail whether it is real or fraud using "Maltego" tool.
 - 1. open new case
 - 2. select email in entity
 - 3. change the name
 - 4. right click on the entity
 - 5. search for email transform
 - 6. select verify and fraud check mail address

In-Skill Task:

1. Kavya heard about the sales in Myntra. She wants to find out the name servers of 'myntra.com'. She is also keen to know what other domains use these name servers. Help her in finding out the above mentioned using Maltego. Also help her get the email addresses these domains use and verify whether these mails exist or not.

Open new case

Select domain entity

Change the domain name to mynthra

Right click and select to domains

(For Evaluator's use only)

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5. Implementation of Password Cracking Using John the Ripper

Date of the Session://	Time of the Session:	to
 Learning Outcomes: To understand the concept of Data Sn To understand the risks in Password of Data Sn 		
Pre-Skill Task:		
1. Why the John the Ripper is easy for passw John the Ripper?	ord cracking? Explain the modes of	of cracking in
2. What are the advantages and disadvantage	es of John the Ripper?	

In-Skill Task:

1. Two best friends started doing a project at last they made the project into a zip file with a password. Unfortunately by the presentation day they both forgot the password, so help them out by cracking the password using John the Ripper

Create a zip file with a password

Once the password is set and zip is put it into the kali machine

Open terminal

Commands:

Zip2john example.zip > hash.txt

/*This command creates the hash of the password and obtains the salts of the same*/

John --format=zip hash.txt

/*This checks for the hash and makes brute force using the rockyou.txt wordlist*/

- ** put an easy password to the zip not a complex one
- ** better put a password from the rockyou.txt file

(For Evaluator's use only)

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6. Implementation of Wi-Fi Hacking Using Reaver

Date of the Session://	Time of the Session:	_to
Learning Outcomes:To understand the concept of Wi-Fi Hacking	<u>.</u>	
<pre>Pre-Skill Task: 1.What is a Reaver attack?</pre>		
2. What Reaver can do compared to other?		
3. Is Reaver safe to use?		

In-Skill Task:

- 1.Dheeraj is learning Reaver. As a beginner he wants to know the use of following commands in Reaver:
 - i) Wash
 - ii) Reaver
- ** "airmon-ng start wlan0" this command puts the wireless interface into monitor mode

```
-(whitedevil⊛kali)-[~/Downloads]
$\frac{sudo}{airmon-ng start wlan0}
[sudo] password for whitedevil:
Found 2 processes that could cause trouble.
Kill them using 'airmon-ng check kill' before putting
the card in monitor mode, they will interfere by changing channels
and sometimes putting the interface back in managed mode
    PID Name
  56399 wpa_supplicant
  57981 NetworkManager
PHY
         Interface
                                             Chipset
                           Driver
phy2
         wlan0
                           mt7601u
                                             Ralink Technology, Corp. MT7601U
clear
                  (monitor mode enabled)
  -(whitedevil® kali)-[~/Downloads]
```

Then we need to monitor the networks:

[&]quot;Sudo wash -I wlan0" this displays the available networks in a detailed way

```
(whitedevil@ kali)-[~/Downloads]

$ sudo wash -i wlan0

BSSID Ch dBm WPS Lck Vendor ESSID

Close 2 seconds

Tracker & ads blocked Bendwidth saved Time saved
```

"reaver -i wlan0 -c 6 -b 00:45:7f:82:03 -vv"

This command starts to test the wps pin connection in Wi-Fi and tries to connect to the Wi-Fi for that we need to give some input such as:

- -c the channel of the wifi which will be shown during wash
- -b is the bssid of the network which is also displayed in the wash
- -vv stands for verbrose mode which works gret while testing a difficult network

2.	Karun	forgot his	s Wi-Fi passwore	d. He wants	to know	the password.	Karun approach	ed you
fo	r help.	Help Karı	un by hacking th	e Wi-Fi usin	g Reaver	•		

Write down the wireless interface names, monitor mode, ESSID, Channel, BSSID of the target and paste the screen shots of execution and the outputs.

Note:- Perform this experiment on your native Wi-fi, your home Wi-Fi preferably.

Same as 1^{st} qn

(For Evaluator's use only)

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SUBJECT CODE: 20CS3041AA CRYPT ANALYSIS AND CYBER DEFENCE WORKBOOK

7. Implementation of NMAP Scanning Technique

Date of the Session://	Time of the Session:to
 Learning Outcomes: To understand the concept Nmap Sca To understand the need of Network S 	
Pre-Skill Task:	
1. Write a Nmap command to scan targets from	om a file.
2. Write a command to print a summary whil	e sending and receiving every packet.
3. Write Nmap query for OS detection.	

In-Skill Task:

- 1. Vicky came to know that NMAP (Network Mapper) is a very versatile tool for Linux system/network administrators and is used for exploring networks, performing security scans, netwoauditsdit and finding open ports on a remotmachinesne, Live hosts and Operating systems. So, he decided to work on the tool. Help him in performing the following scans:
- a. Ping sweep nmap -sP ipaddr range
- b. Port scan namp ipaddr
- c. TCP full open scan: nmap -sT ipaddr
- d. TCP SYN scan: nmap -sS ipaddr
- e. UDP scan: nmap-sU ipaddr
- f. Version detection scan: sudo nmap-sV ipaddr
- g. OS detection scan and : sudo nmap -O ipaddr
- h. Aggressive scan.: Namp -A ipaddr

Post-Skill Task	
rust-skiii lask	•

1. Billy is trying to understand how "-v" option is used in NMAP scanning technique. Explain him the use of the option "-v" by working on it.

Comment of the Evaluator (if Any)	Evaluator's Observation	
	Marks Secured:out of	
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	Signature of the Evaluator Date of Evaluation	

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SUBJECT CODE: 20CS3041AA CRYPT ANALYSIS AND CYBER DEFENCE WORKBOOK

8. Implementation of Vulnerability Analysis Using Wireshark

Da	ate of the Session:to
Le	earning Outcomes:
•	To understand the Wireshark tool. To analyse the packets when we capture network traffic using Wireshark tool.
Do Re	erequisite: Wireshark Software ownload: https://www.wireshark.org/download.html eference: https://www.wireshark.org/docs/ eer Guide: https://www.wireshark.org/docs/wsug_html/
Pr	e–Skill Task:
1.	What is the main purpose of Wireshark tool?
2.	How can we utilize the Wireshark tool and for what?
3.	Describe about the each and every column in the top pane in Wireshark tool.

In-Skill Task:

- 1. How we can capture the data packets using the Wireshark tool? Mention the step by step process.
 - 1. Open terminal
 - 2. Sudo wireshark
 - 3. Wireshark gui is shown up
 - 4. Select the interface
 - 5. Select start in top left corner
 - 6. It starts to capture the packets

2.	Analyze any packets that you capture and write down their information i.e., their source,
	destination along with its IP Address and to which protocol they belong to?

Do the same $\ as \ 1^{st}$ and just write down them

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9. Implementation of Man in the Middle Attack (Ettercap Tool)

Date of the Session://	Time of the Session:	to
 Learning Outcomes: To understand MITM attack. To understand Kali Linux is used to explo 	ore the concept.	
Pre-Class:		
1. What is EtterCap?		
2. List out user Interfaces provided by the EtterCap?		
3. Write an example for Man in the Middle attack.		
4. List the goals of ARP Spoofing.		

In-Skill Task:

1. Monica and Jessica are exploring possible man in the middle attacks in cyber security in that process they learnt about ARP poisoning/spoofing. To demonstrate this they wanted to work with Ettercap, what could be the process or steps involved in this experiment, Demonstrate.

Post-Skill Task:

1.Explain the four modules in the Ettercap?		
2. Is Ettercap a sniffing tool?		

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10. Implementation of Mobile Security Using APK Tool.

Date	of the Session://	Time of the Session:	to
Learn • •	ting Outcomes: To understand the importance of Mobile sec To understand APK tool is used for mobile		
	kill Task: What are the needs of mobile security using AP	K tool?	
2.	What are the mobile apps testing tools?		
3.	How mobile security framework works?		

In-Skill Task:

1) MOBILE SECURITY USING APK TOOL. Explore the following steps.

Task1: Installing process of APK tool?

Task2: Working of APK tool

Task 3: What is the conclusion of Working of APK tool?

Comment of the Evaluator (if Any)	Evaluator's Observation	
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	Signature of the Evaluator Date of Evaluation	

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11. Implementation of Web Application Security Using Burp Suite.

Date	of the Session://	Time of the Session:	to
<u>Leari</u> •	To understand the importance of V To understand how Burp suite is to	• • • • • • • • • • • • • • • • • • • •	
Pre-S	kill Task:		
1.	Sai wants to implement web appli required tools?	cation security using burp suite, help h	im with the
2.	Install and configure burp suite an	d list out the features of Burp Suite?	

In-Skill Task:

1. Find out all the requests sent to server when we access a particular URL(any URL)? And

list those requests here.	•	, •

20CS3041AA_Crypt Analysis and Cyber Defence	
. Open the given URL, change the details entered by the user in that page (first name,	
. Open the given OKE, change the details efficied by the user in that page (first halle,	
F	

last name, user name) using parameter pampering.

Comment of the Evaluator (if Any)	Evaluator's Observation	
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	Full Name of the Evaluator:	
	Signature of the Evaluator Date of Evaluation	

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SUBJECT CODE: 20CS3041AA CRYPT ANALYSIS AND CYBER DEFENCE WORKBOOK

12. Implementation of Web Application Security (Paros)

Date of the Session://	Time of the Session:to
 Learning Outcomes: To understand the importance of We To understand how Paros is used for 	* * * * * * * * * * * * * * * * * * *
Pre-Skill Task:	
• • • • •	or penetration testing for web applications but also at Paros have that also help web developers?
- · · · · · · · · · · · · · · · · · · ·	might want to manually review the data to assess bilities. What are the few advanced features that
•	cation security tools paros can be used to find out oting) vulnerability on a web application" Justify

In-Skill Task:

1. Why is it important for penetration testing tools on web applications. and how do you use Paros to validate vulnerabilities reports?

2. Write steps to implement Paros in your Kali Linux?

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13. Implementation of SQL Injection Using SQLMap

Date	of the Session://	Time of the Session:	to
Lear	ning Outcomes:		
•	To understand the concept SQL INJE	ECTION using SQLmap.	
Pre-S	Skill Task:		
	tish is new to hacking field and he wan ions. Briefly explain about SQL injecti	- •	l types of SQL
all av and a the sh	amu has developed a web application on ailable products in his shop to database lso the number of customers. Recently nop which is behind his shop was leak ers use SOL injection to retrieve the da	e and day by day the online shopping he heard that the data belongs to the day some hackers. And he can	ng is increasing ne customers of ne to know that

weather attackers able to use SQL injection to retrieve data from his website. Help him by

explaining some methods to detect SQL Injection Vulnerabilities.

In-Class Task:

1. Given below is a testing and demo website for sqlmap practice.

http://testphp.vulweb.com/listproducts.php?cat=1

- a) Find out the backend DBMS used in the mentioned website. Also list the databases present in it.
- b) Now pick any database from the output and list the tables in it.
- c) Search for the user name and passwords from those tables and try to login.

2. SUBTASK OF PREVIOUS WEBSITE:

- a) Dump the artist names available in the database you found out.
- b) In the previous question the vulnerable website was already given to you, instead, list one of the various ways through which we can identify vulnerable websites to access their databases and information.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SUBJECT CODE: 20CS3041AA CRYPT ANALYSIS AND CYBER DEFENCE WORKBOOK

14. Implementation of Cross Site Scripting Attack.

Date of the Session://	Time of the Session:	to
 Learning Outcomes: To understand about cross site scripting(xss) To apply cross site scripting(xss) for check 		
Pre-Skill Task:		
1. What is Cross Site Scripting?		
2. List various types in Cross Site Scripting.		
3. List out some websites which are enabled for Cr	ross Site Scripting.	

In-Skill Task:

1. Implement Cross Site Scripting for the following tasks in the given link below. And write the steps you have used for applying XSS:

Link: http://www.xss-game.appspot.com/

Task 1:

Mission Description

This level demonstrates a common cause of cross-site scripting where user input is directly included in the page without proper escaping.

Interact with the vulnerable application window below and find a way to make it execute JavaScript of your choosing. You can take actions inside the vulnerable window or directly edit its URL bar.

Mission Objective

Inject a script to pop up a JavaScript alert() in the frame below.

Link: http://www.xss-game.appspot.com/level1

Task 2:

Mission Description

Web applications often keep user data in server-side and, increasingly, client-side databases and later display it to users. No matter where such user-controlled data comes from, it should be handled carefully.

This level shows how easily XSS bugs can be introduced in complex apps.

Mission Objective

Inject a script to pop up an **alert()** in the context of the application.

Note: the application saves your posts so if you sneak in code to execute the alert, this level will be solved every time you reload it.

Link: http://www.xss-game.appspot.com/level2

Comment of the Evaluator (if Any)	Evaluator's Observation
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	Full Name of the Evaluator:
	Signature of the Evaluator Date of Evaluation

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SUBJECT CODE: 20CS3041AA CRYPT ANALYSIS AND CYBER DEFENCE WORKBOOK

15. Implementation of Windows Exploit using Metasploit

Date of the Session://	Time of the Session:	to
 Learning Outcomes: To understand Metasploit Framework How to setup payload for exploiting To understand Post exploitation techniques 		
Pre-Skill Task: 1. What are different types of modules does metasp.	loit contains?	

3. Draw the architecture of Metasploit.

In-Skill Task:

1. Being a cyber security aspirant you want to join in KL University in cyber security and block chain specialization in order to confirm your seat you should clear basic entrance exam conducted by the University. Your problem statement is to exploit windows xp. All the best Happy Hacking!!

(Hint: You can use smb vulnerability)

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