

1. Information Gathering on Websites.

- Create a lab with Oracle Virtual Box or VMware with Kali Linux OS, Windows 7, and Windows XP.

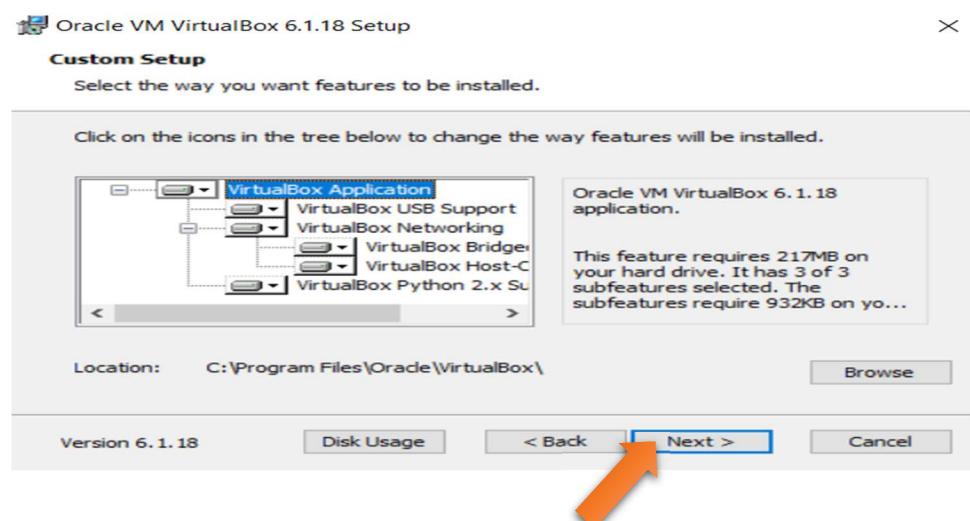
To Create Oracle Virtual Box:-

Step 1:- Download Oracle Virtual Box.

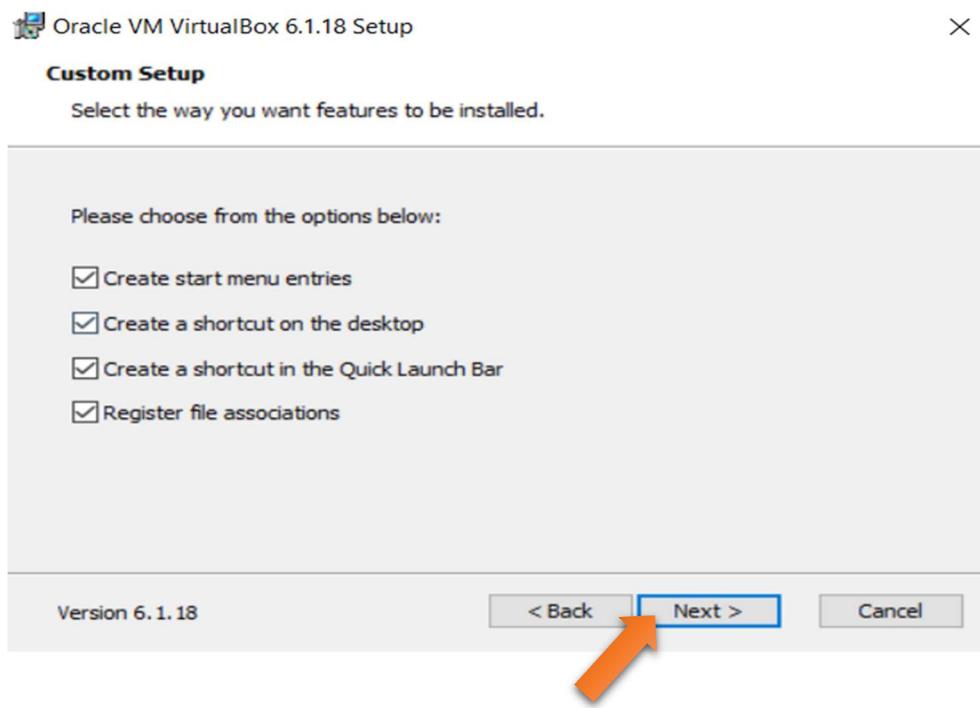
Step 2:- Double click on Oracle Virtual Box to open.



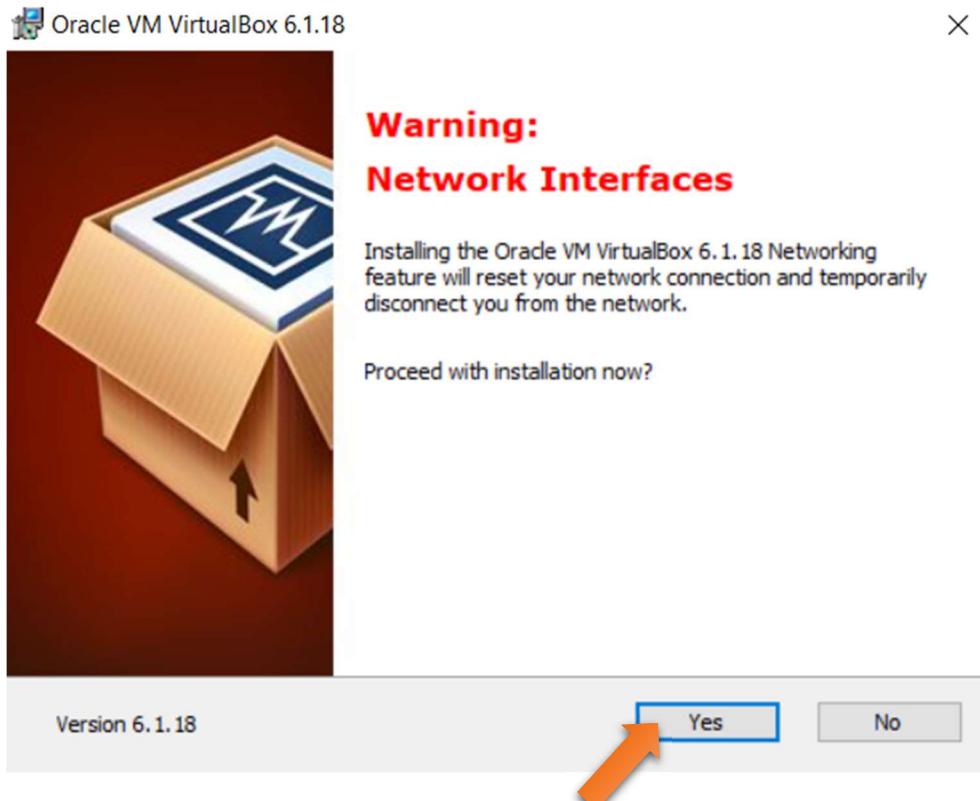
Step 3:- Click on Next.



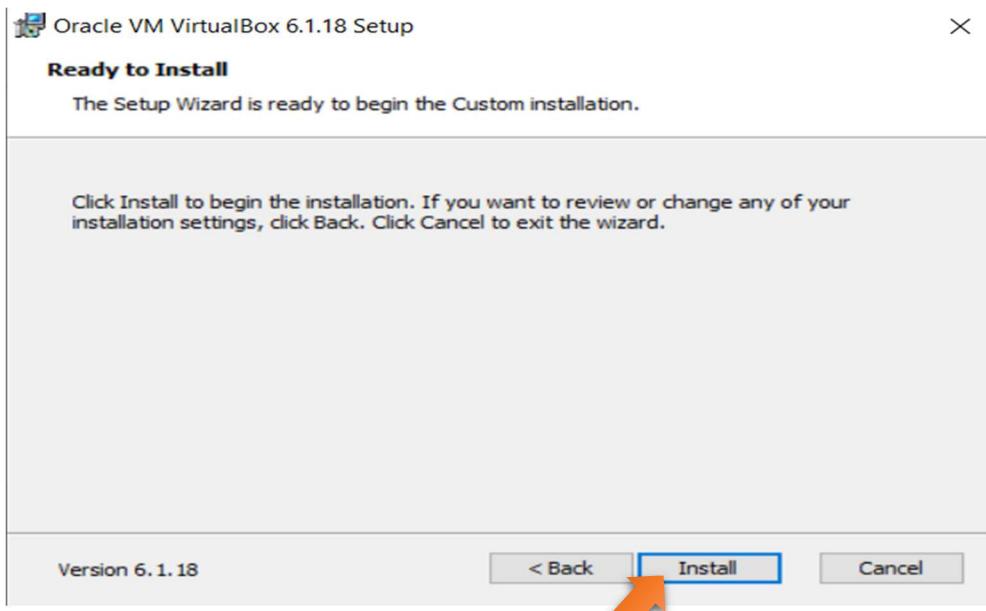
Step 4:- Leave default settings & Click on Next.



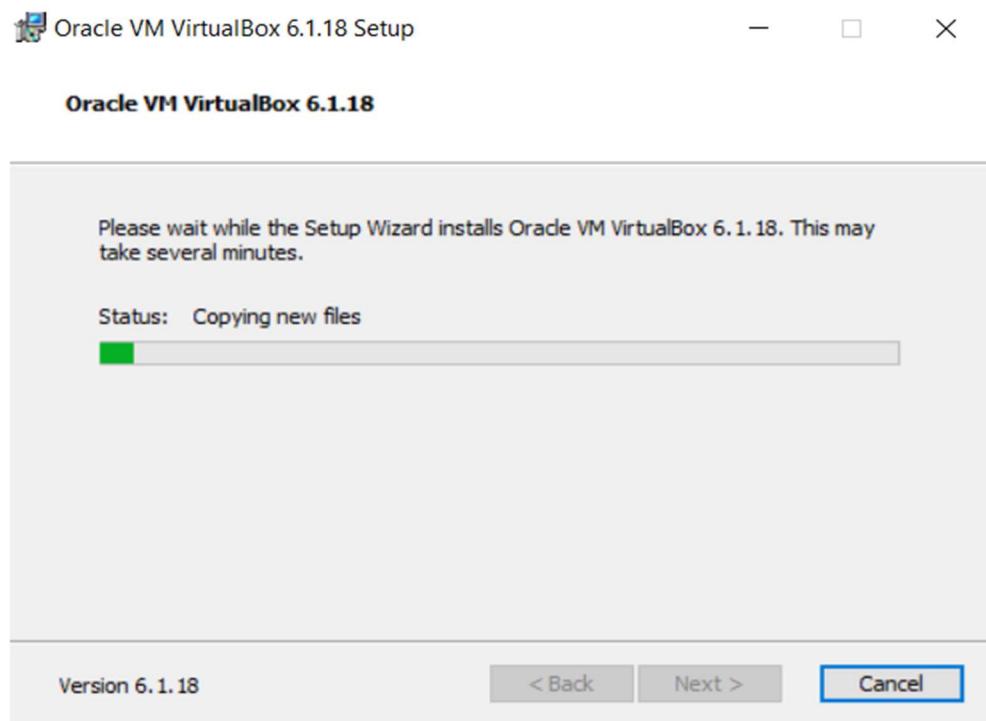
Step 5:- Select the options & Click on next.



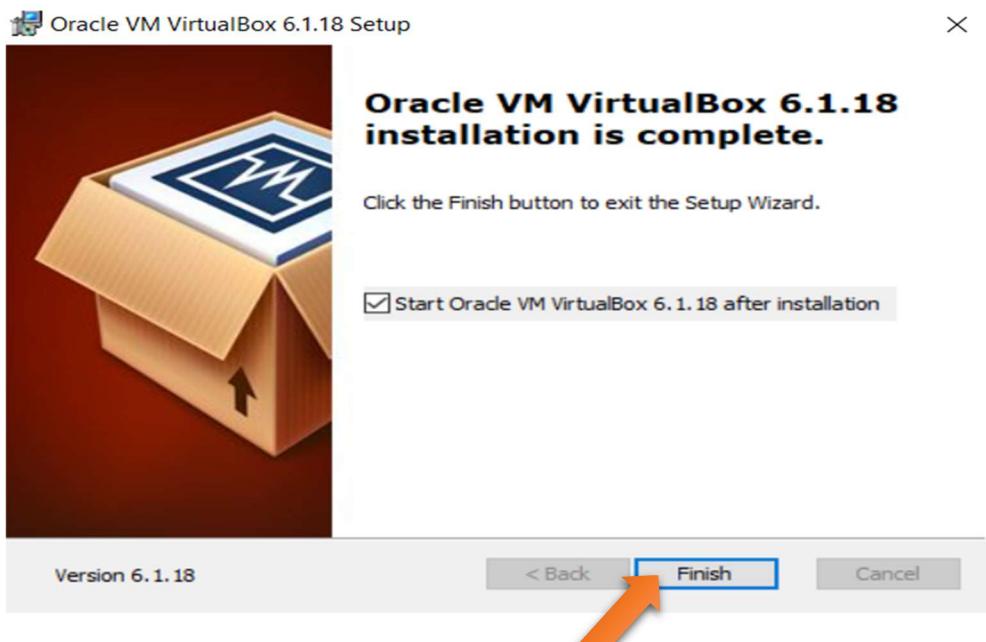
Step 6:- Click on Yes.



Step 7:- Click on install.



Step 8:- On process.

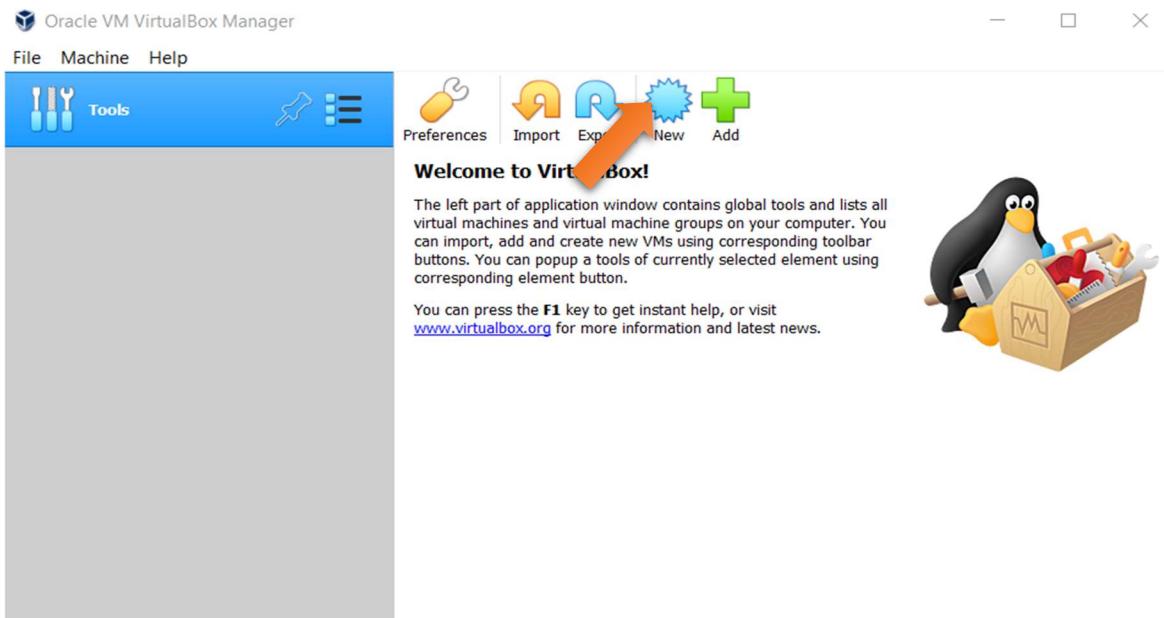


Step 9:- Click on Finish.

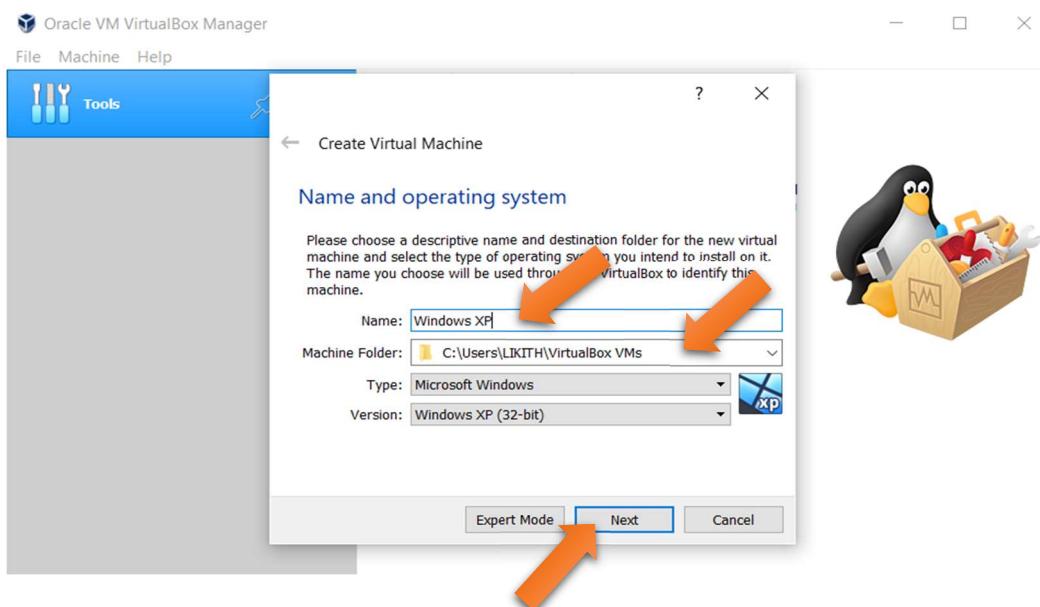
To Create Windows XP:-

Step 1:- Download Windows XP.

Step 2:- Open Oracle Virtual Box.

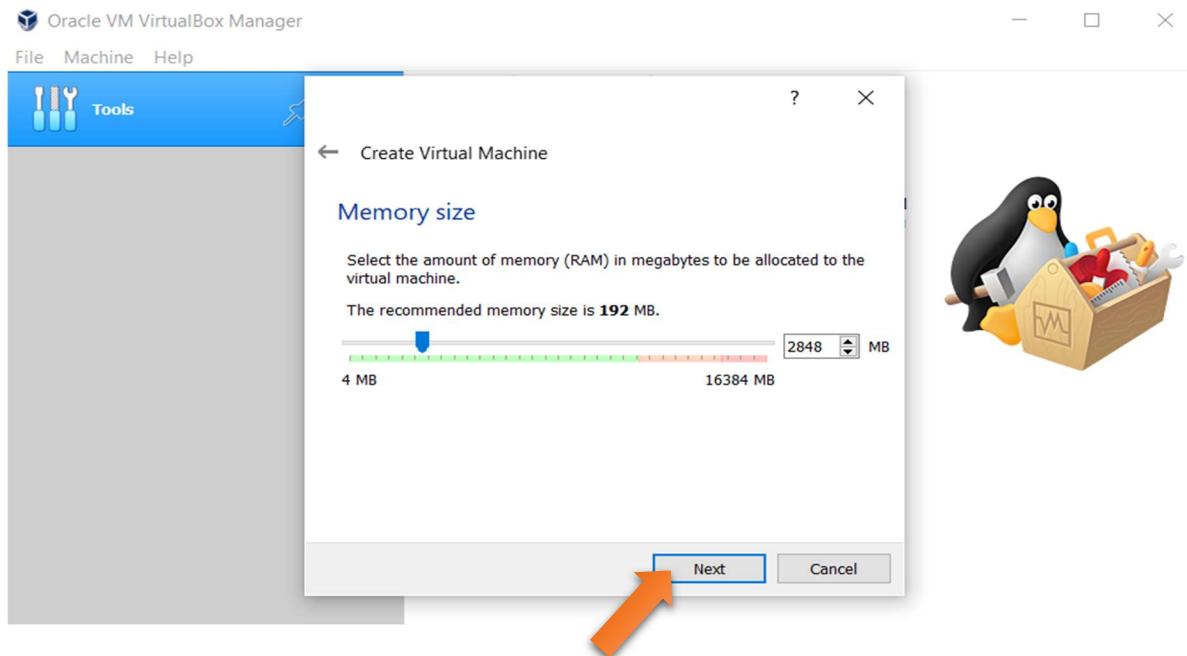


Step 3:- Click on New.

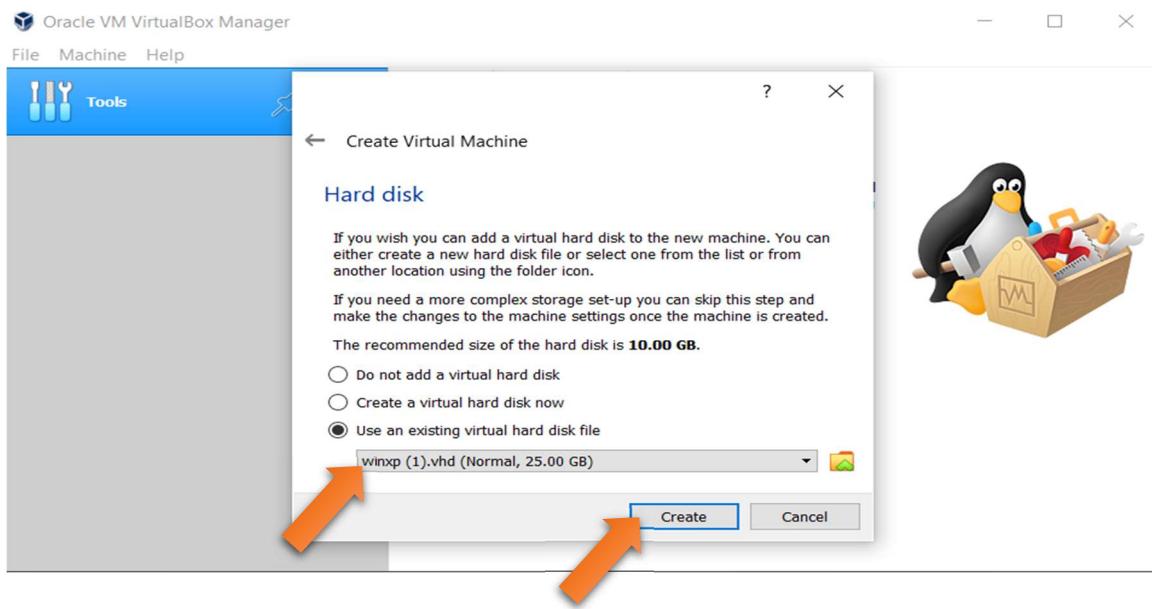


Step 4:- Type name of Operating System & Machine Folder Location.

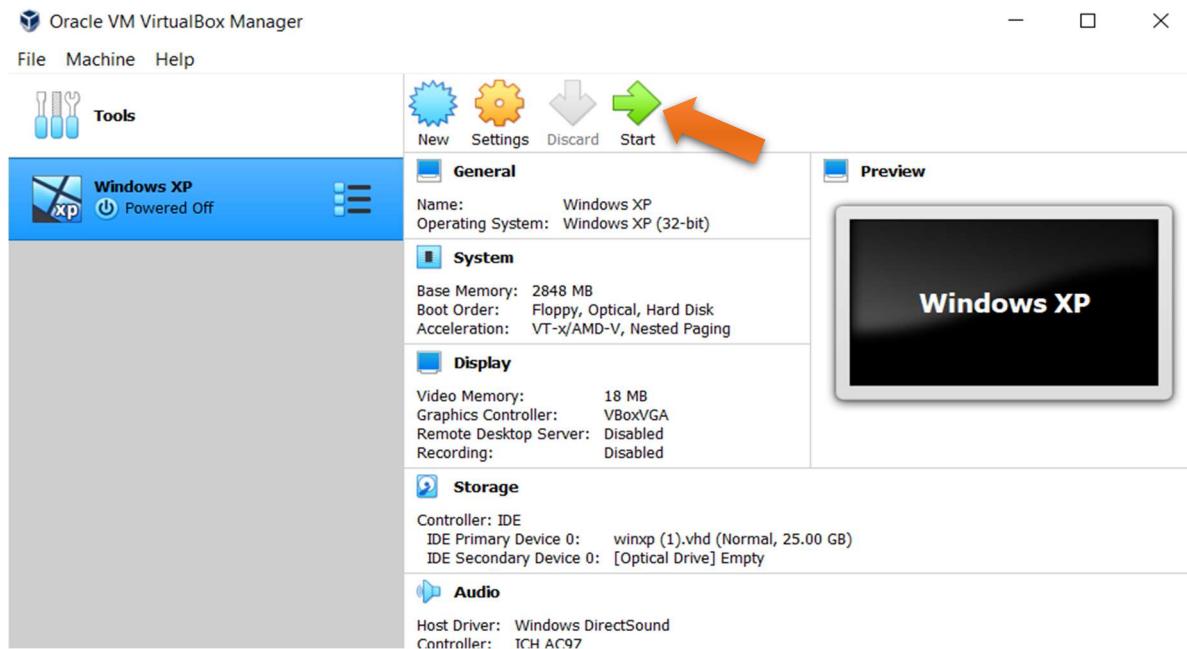
Step 5:- Click on Next.



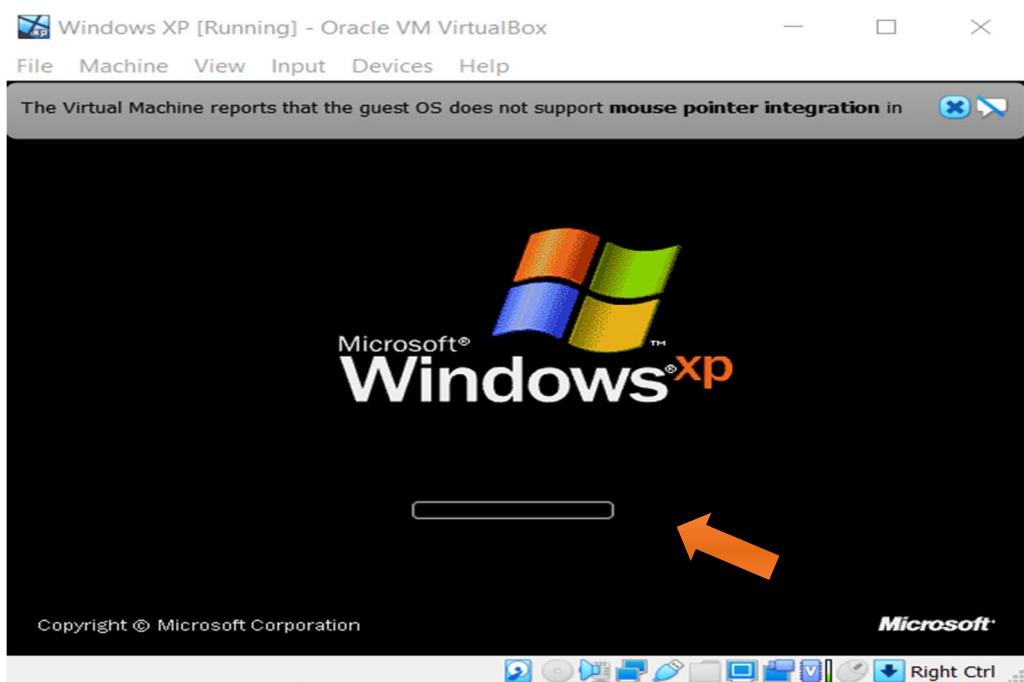
Step 6:- Select Memory size & Click on Next.



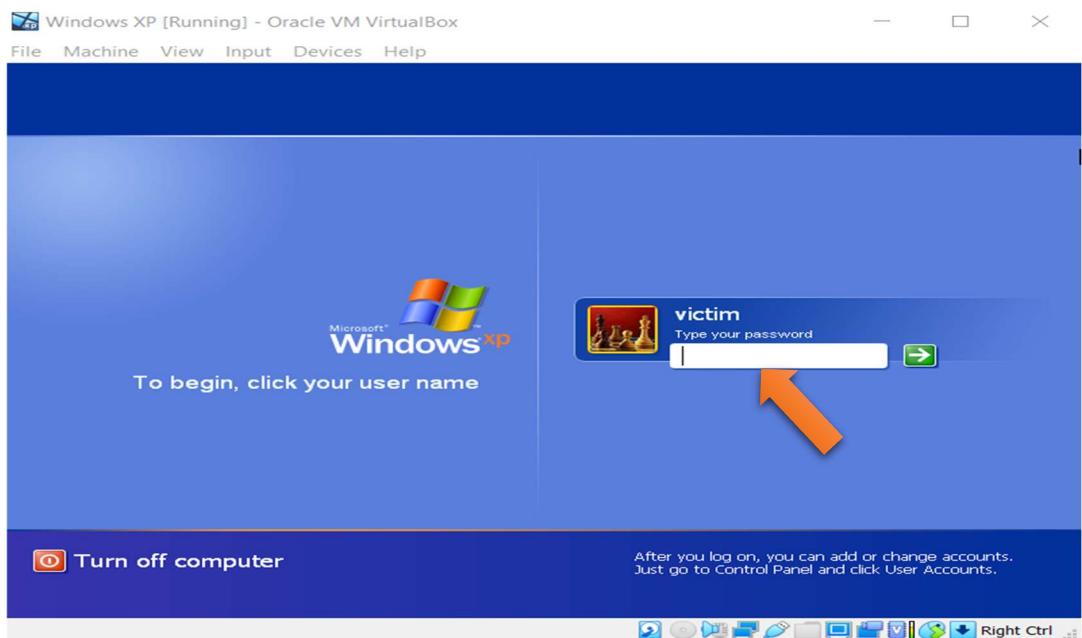
Step 7:- Select Windows XP & Click on Create.



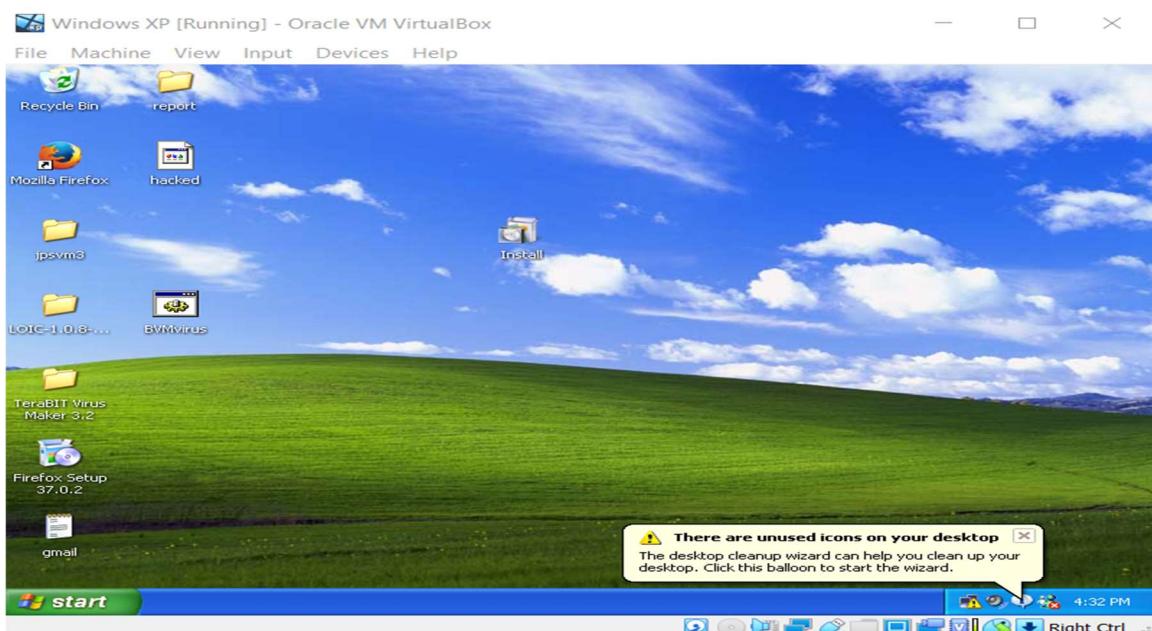
Step 8:- Windows XP is ready to install & Click on Start.



Step 9:- Windows XP is Booting.



Step 10:- Click on password & Type Password.



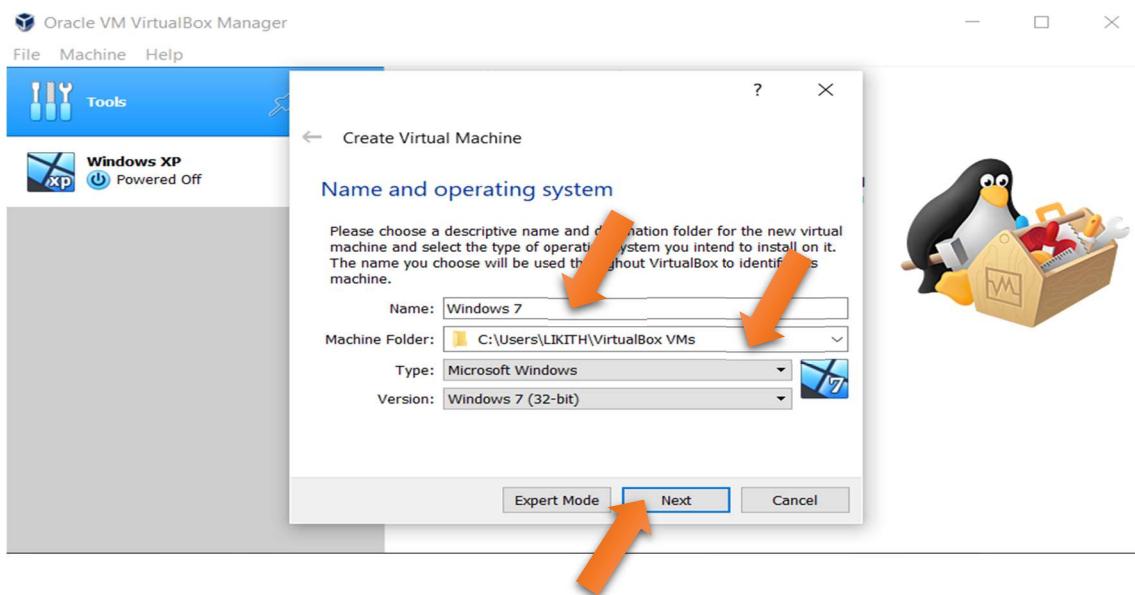
Step 11:- Windows XP is ready to use.

To Create Windows 7:-

Step 1:- Download Windows 7.

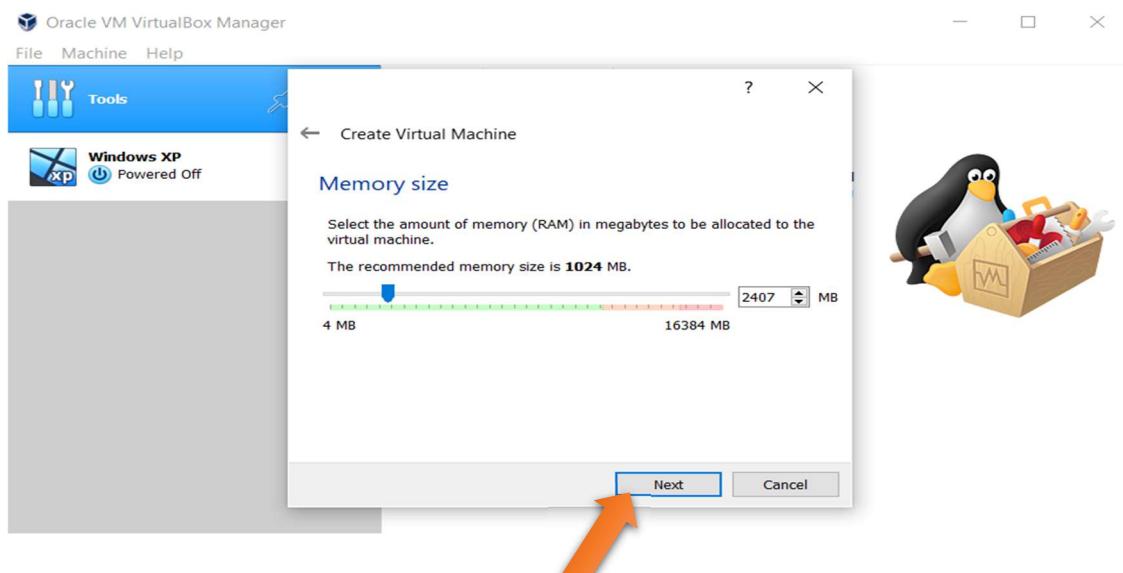
Step 2:- Open Oracle Virtual Box.

Step 3:- Click on New.

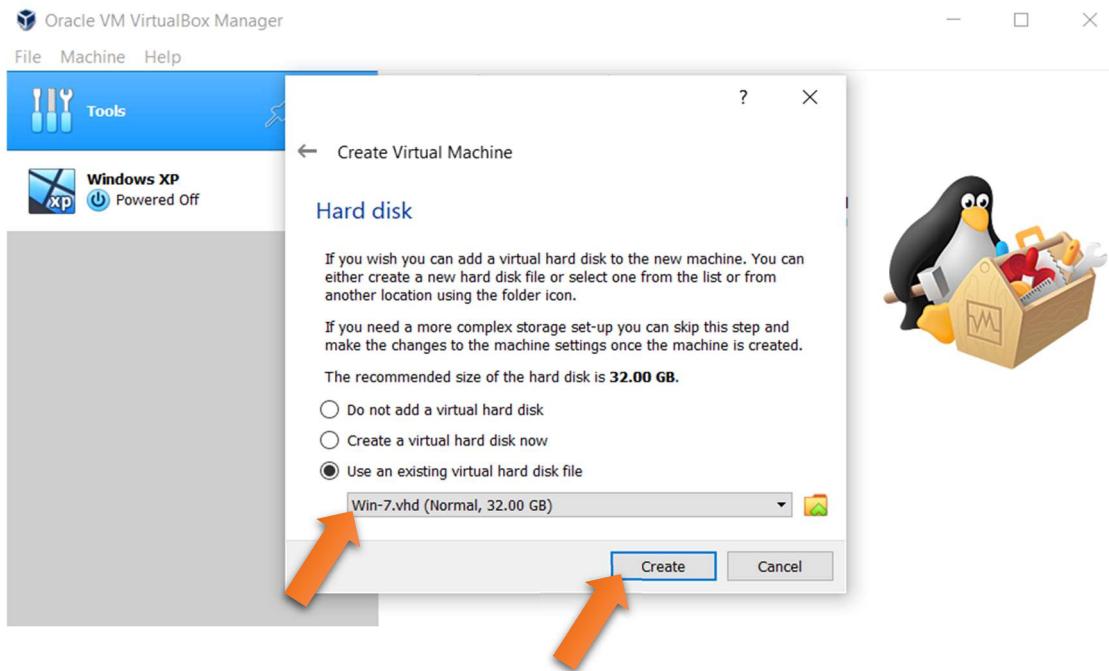


Step 4:- Type name of Operating System & Machine Folder Location.

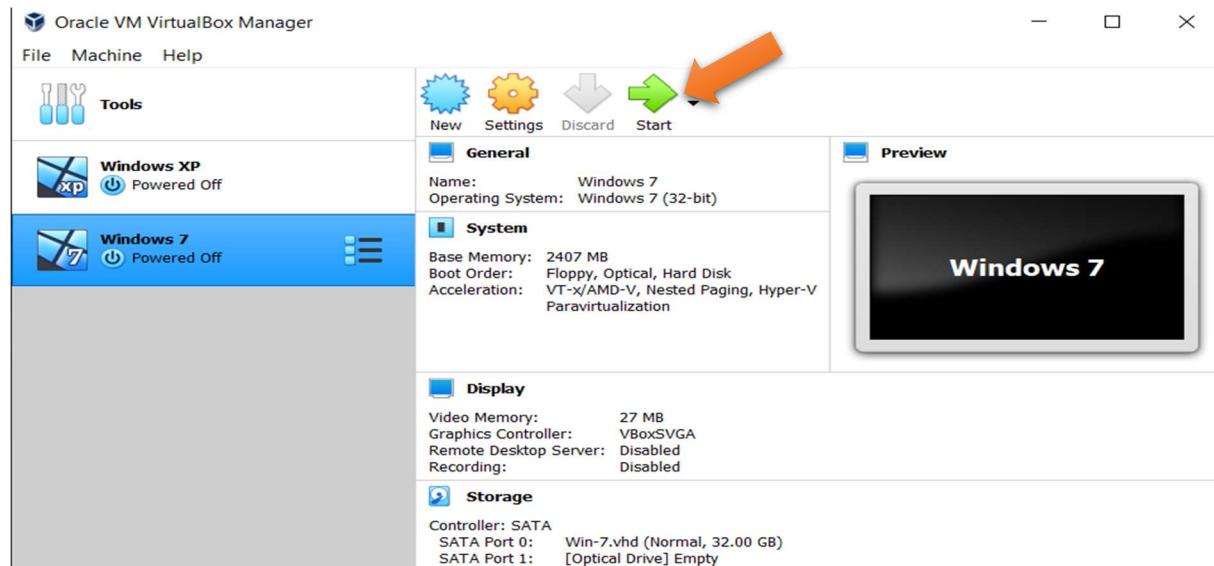
Step 5:- Click on Next.



Step 6:- Select Memory size & Click on Next.



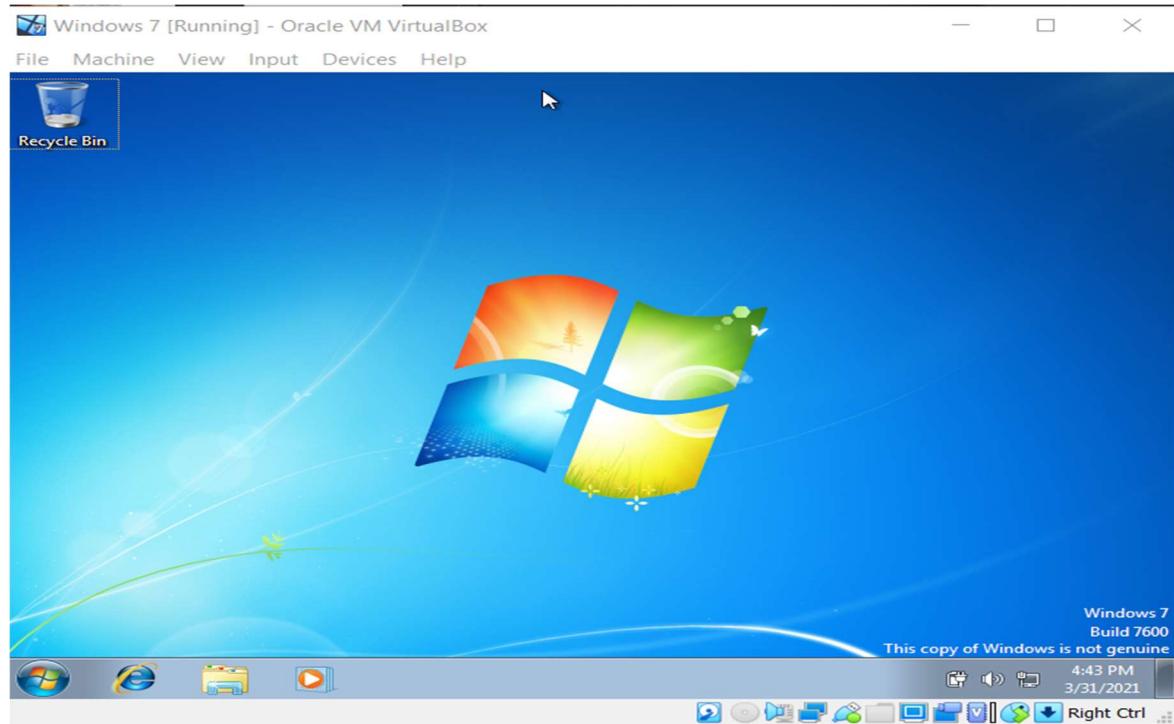
Step 7:- Select Windows 7 & Click on Create.



Step 8:- Windows 7 is ready to install & Click on Start.

Step 9:- Windows 7 is Booting.

Step 10:- Click on password & Type Password.



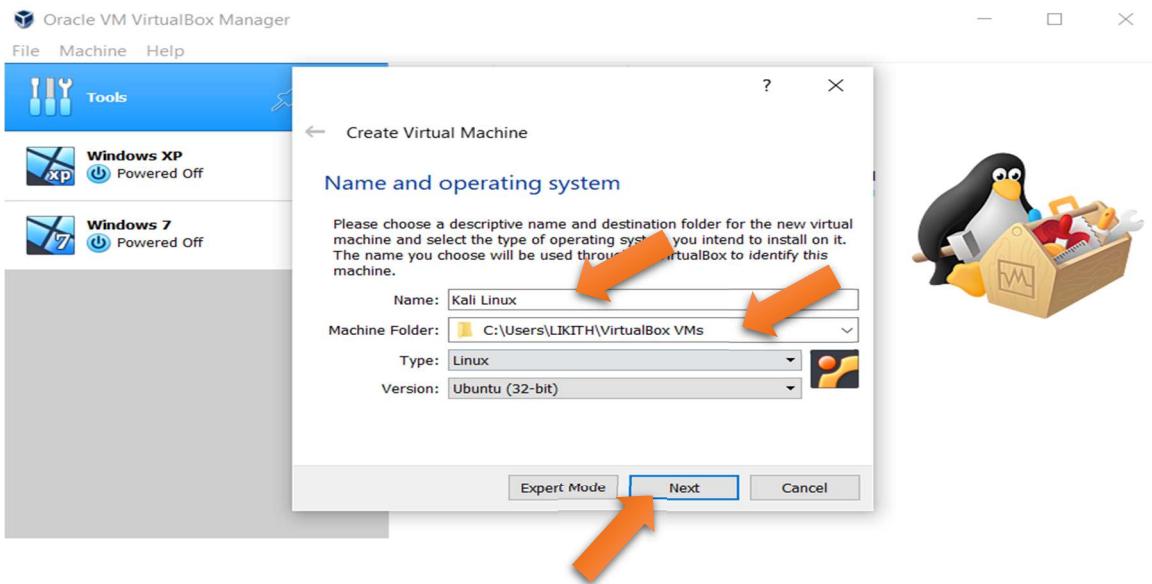
Step 11:- Windows 7 is ready to use.

To Create Kali Linux:-

Step 1:- Download Kali Linux.

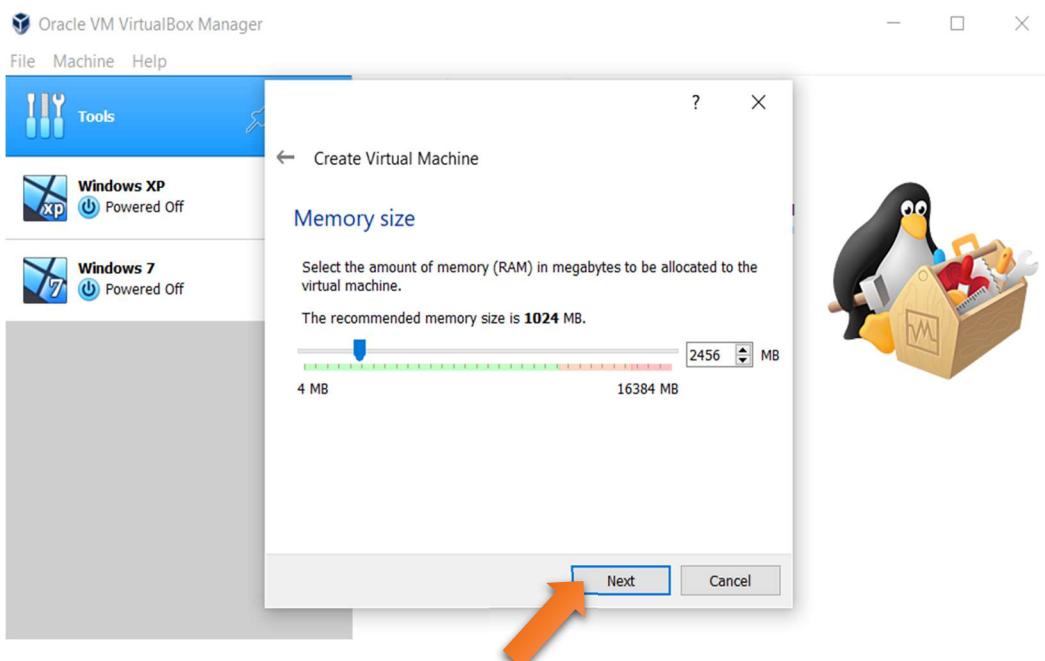
Step 2:- Open Oracle Virtual Box.

Step 3:- Click on New.

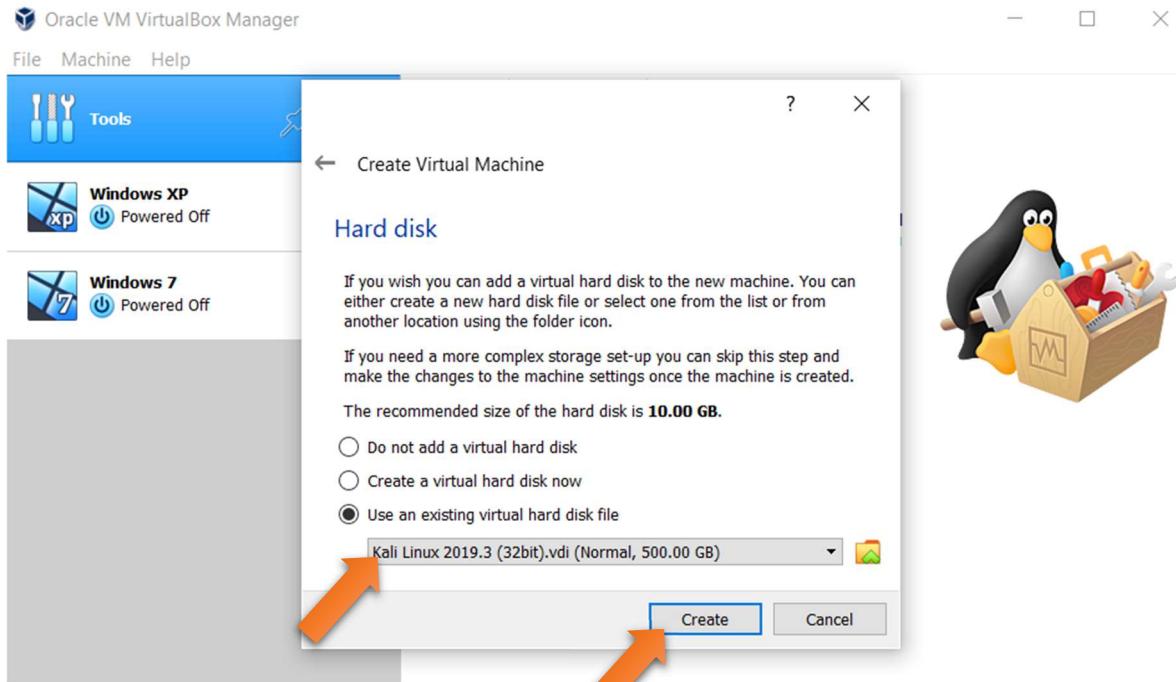


Step 4:- Type name of Operating System & Machine Folder Location.

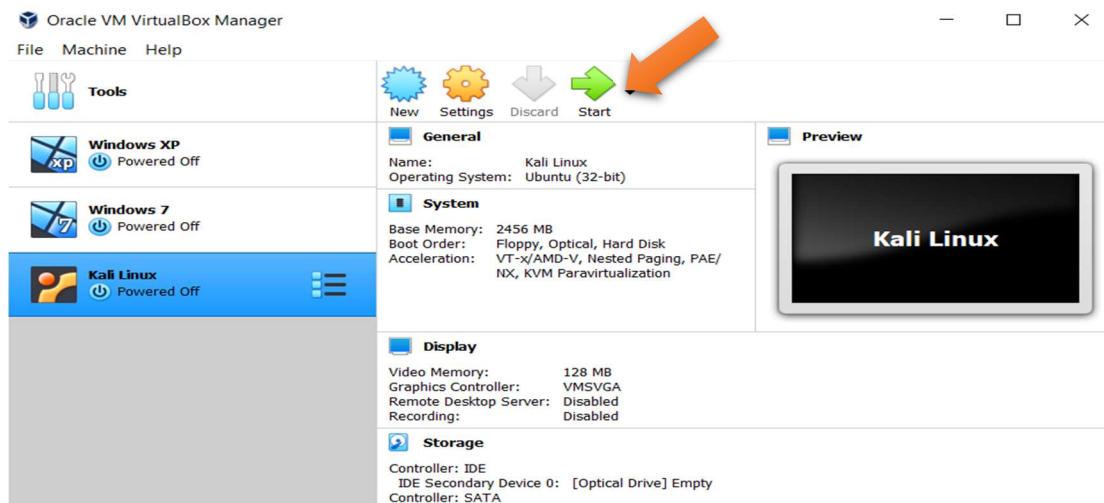
Step 5:- Click on Next.



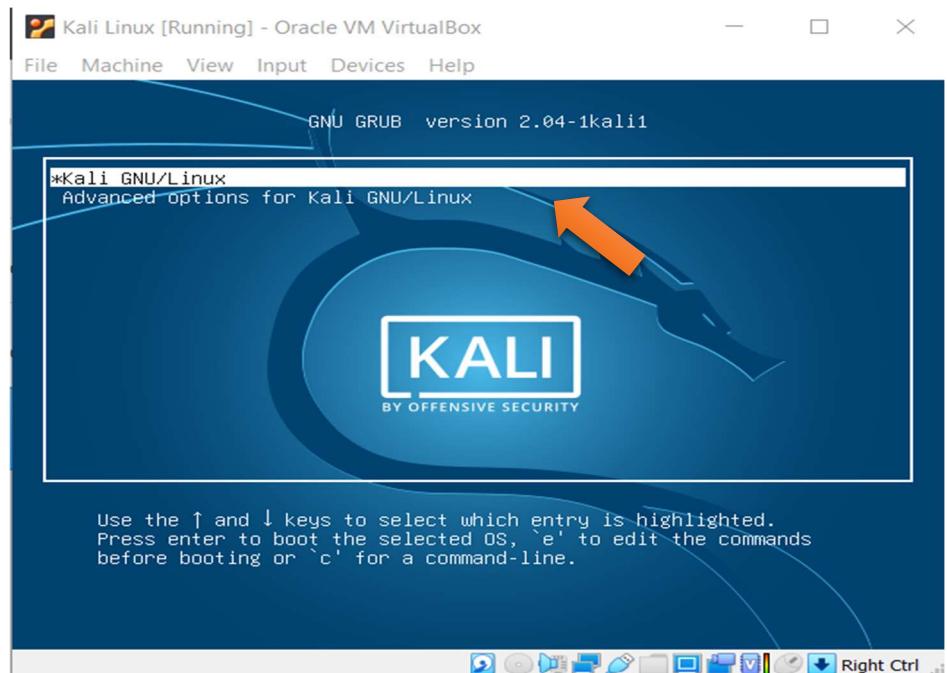
Step 6:- Select Memory size & Click on Next.



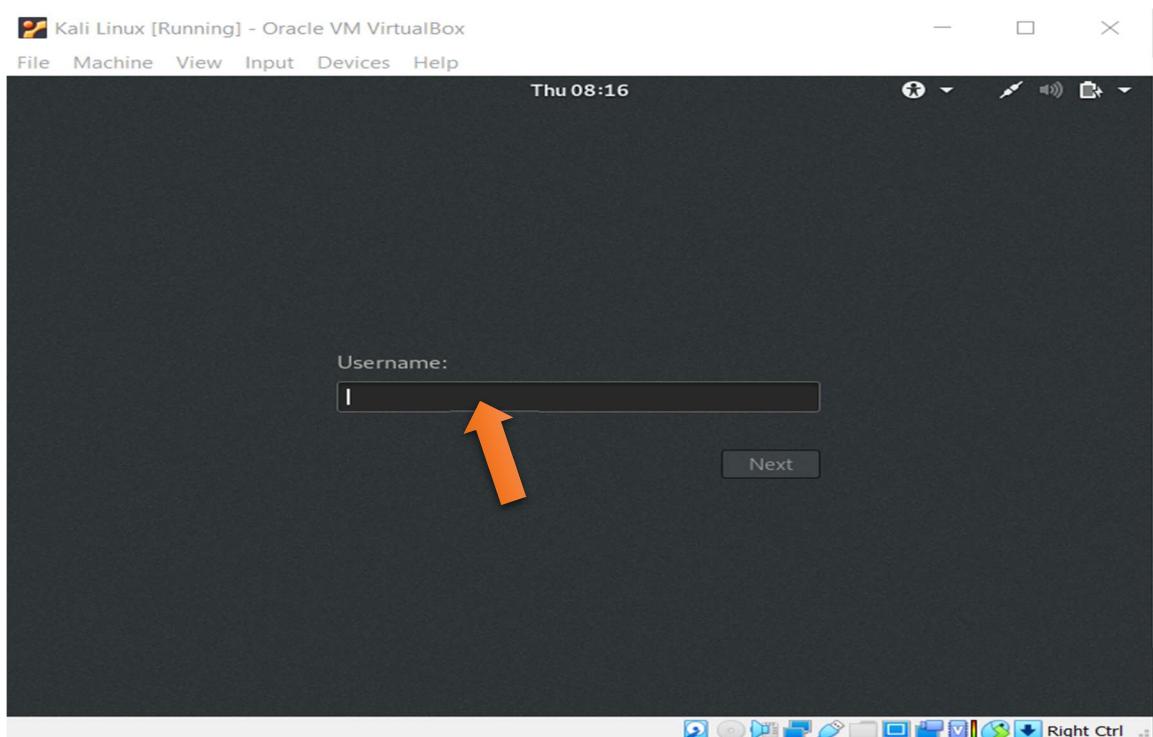
Step 7:- Select Kali Linux & Click on Create.



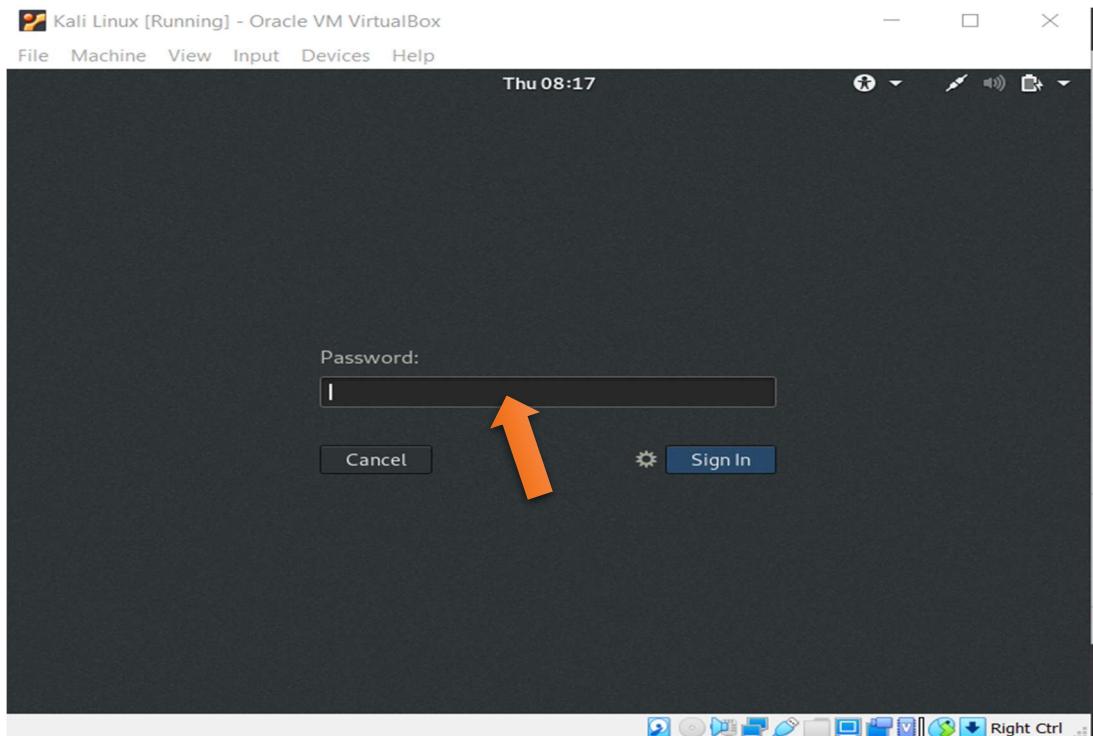
Step 8:- Kali Linux is ready to install & Click on Start.



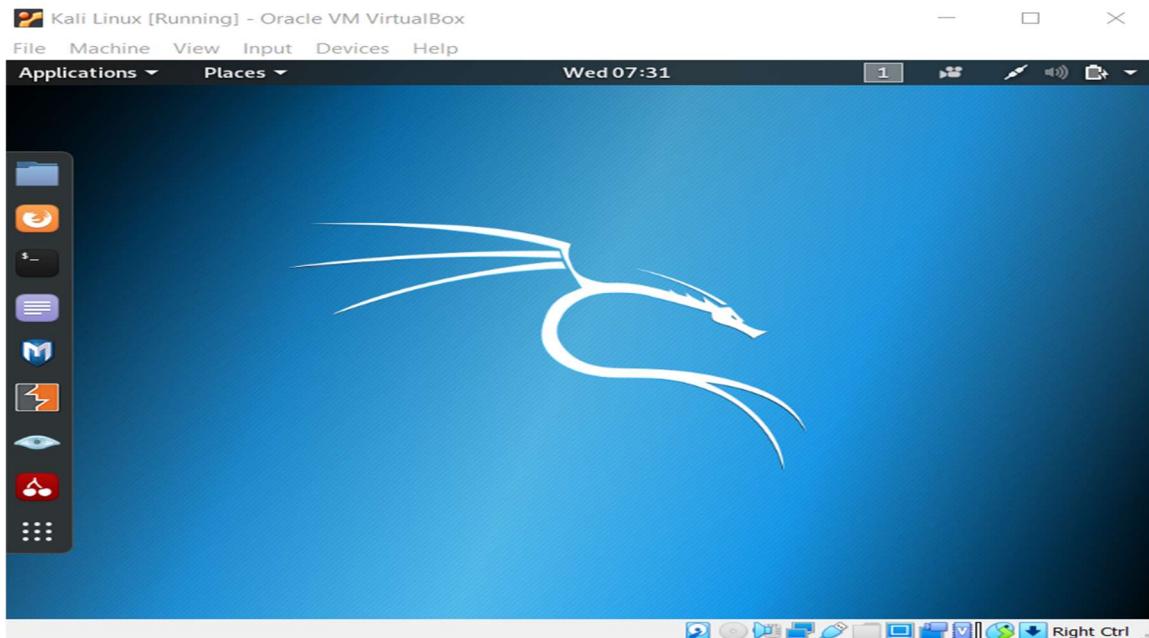
Step 9:- Kali Linux is Booting.



Step 10:- Click on Username & Type Username.



Step 11:- Click on password & Type Password.



Step 12:- Kali Linux is ready to use.

- Gather information about Instagram (website).

Instagram (website) :-

Step 1:- Open browser & Type <https://about.instagram.com>

Step 2:-



Head of Instagram:-

Adam Mosseri ([@mosseri](#)) is the Head of Instagram where he oversees all functions of the business including engineering, product and operations. A designer at heart, Adam is known for balancing sharp design thinking with thoughtful product strategy to create experiences that bring people together and encourage authentic communication.

Adam has been at Facebook for more than ten years. He was design director for Facebook's mobile apps and then moved into product management where he led the News Feed product and engineering teams for many years. He was Head of News Feed prior to joining Instagram where he oversaw product before managing the entire organization.

Prior to Facebook, Adam worked at TokBox as the company's first designer. He began his career founding a design consultancy in 2003 with offices in New York and San Francisco that focused on graphic, interaction and exhibition design. Adam holds a BA from the Gallatin School of Interdisciplinary Study at NYU where he studied Information Design and Media.

Born and raised in New York, he now lives in San Francisco with his wife and two sons.

Founders:-

Kevin Systrom (Co-founder)

Kevin Systrom ([@kevin](#)) co-founded Instagram and served as CEO for 8 years before leaving the company in September 2018 to pursue his next passion project. With Kevin's focus on simplicity and inspiring creativity through solving problems with thoughtful product design, Instagram became the home for innovation on visual storytelling launching dozens of products including Stories and IGTV.

Prior to founding Instagram, Kevin was part of the startup Odeo, which later became Twitter, and spent two years at Google working on products like Gmail and Google Reader. He graduated from Stanford University with a BS in Management Science & Engineering.

Mike Krieger (Co-founder)

Mike Krieger ([@mikeyk](#)) co-founded Instagram and served as Instagram's Head of Engineering for 8 years, before leaving the company in September 2018 to explore new projects. Mike focused on building a broad range of creative products to empower the community on Instagram to connect with their interests and passions. In addition, Mike grew the engineering organization to more than 400 employees in Instagram offices located in Menlo Park, New York and San Francisco.

A native of São Paulo, Brazil, Mike holds an MS in Symbolic Systems from Stanford University. Prior to founding Instagram, he worked at Meebo as a user experience designer and front-end engineer.

Purpose of Instagram?

Instagram is an entirely visual platform. Unlike Facebook, **which** relies on both text and pictures, or Twitter, **which** relies on text alone, **Instagram's sole purpose** is to enable users to share images or videos with their audience.

Hashtags

In January 2011, Instagram introduced [hashtags](#) to help users discover both photos and each other. Instagram encourages users to make tags both specific and relevant, rather than tagging generic words like "photo", to make photographs stand out and to attract like-minded Instagram users.

Users on Instagram have created "trends" through hashtags. The trends deemed the most popular on the platform often highlight a specific day of the week to post the material on. Examples of popular trends include #SelfieSunday, in which users post a photo of their faces on Sundays; #MotivationMonday, in which users post motivational photos on Mondays; #TransformationTuesday, in which users post photos highlighting differences from the past to the present; #WomanCrushWednesday, in which users post photos of women they have a romantic interest in or view favorably, as well as its #ManCrushMonday counterpart centered on men; and #ThrowbackThursday, in which users post a photo from their past, highlighting a particular moment.

In December 2017, Instagram began to allow users to follow hashtags, which display relevant highlights of the topic in their feeds.

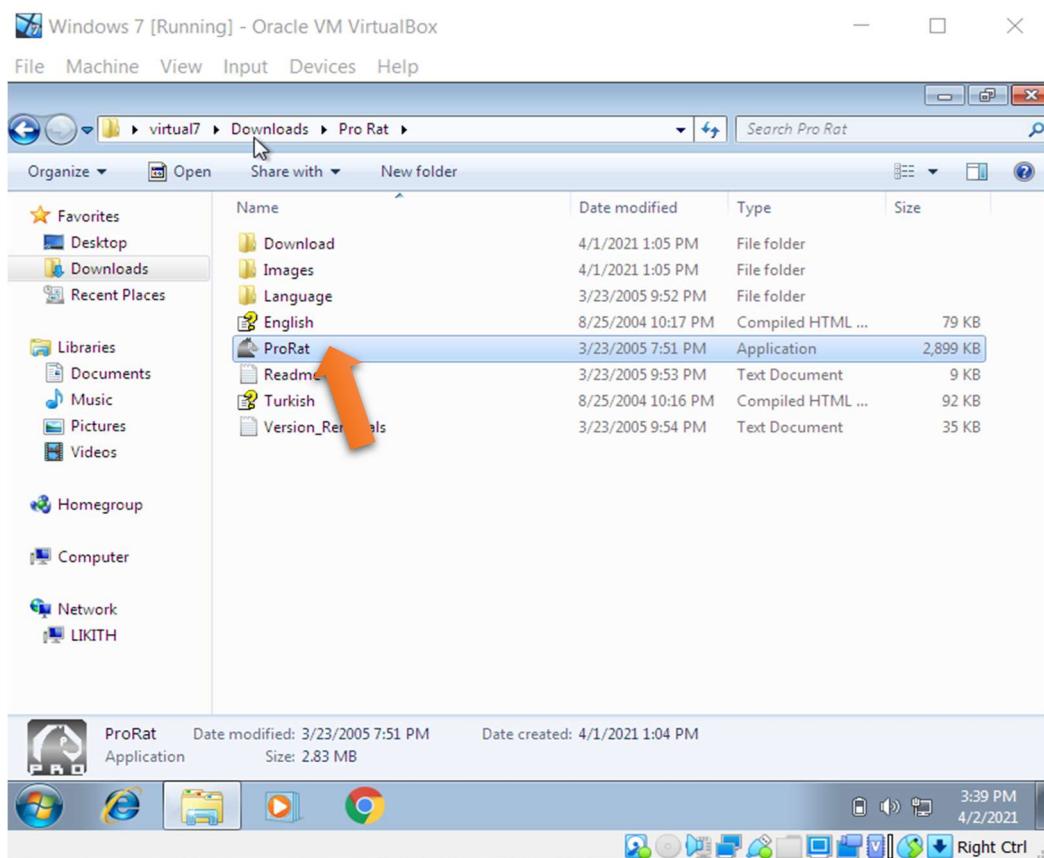
2. Penetration Testing on System .

- Test the Windows security using the ProRat and get access to the key logs. Delete the files from desktop or C drive and execute the commands to create a new folder in desktop and upload any file from your system.

To Create ProRat:-

Step 1:- Download ProRat.

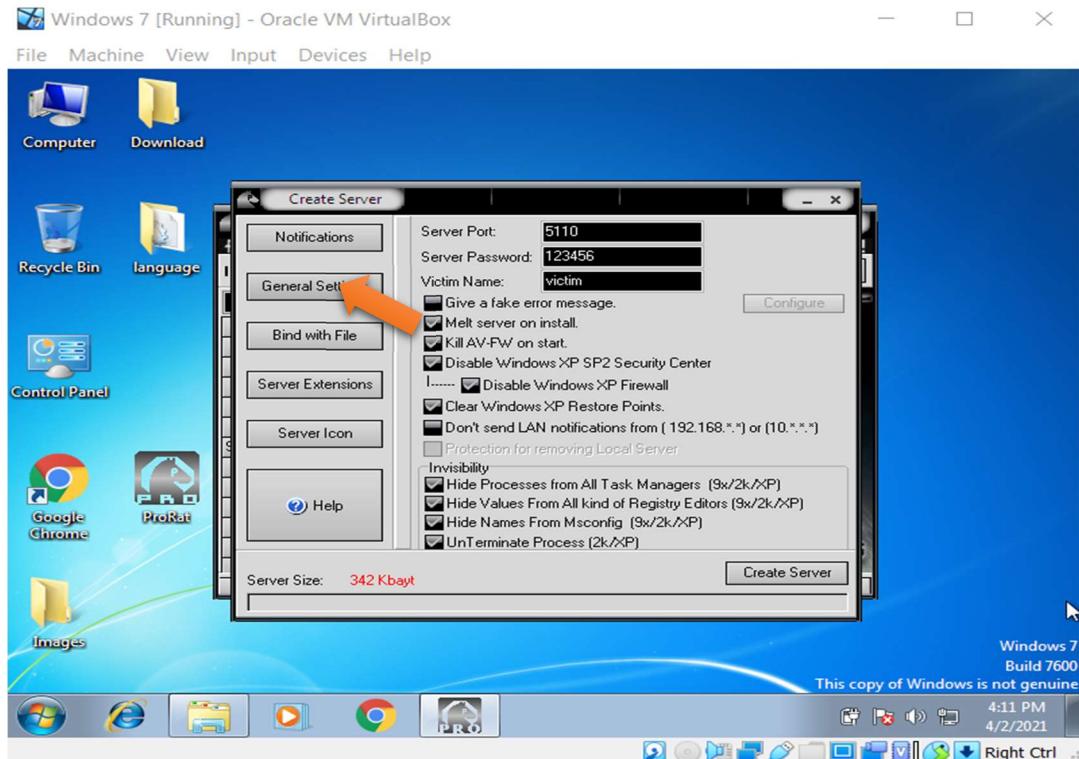
Step 2:- Block the Windows security.



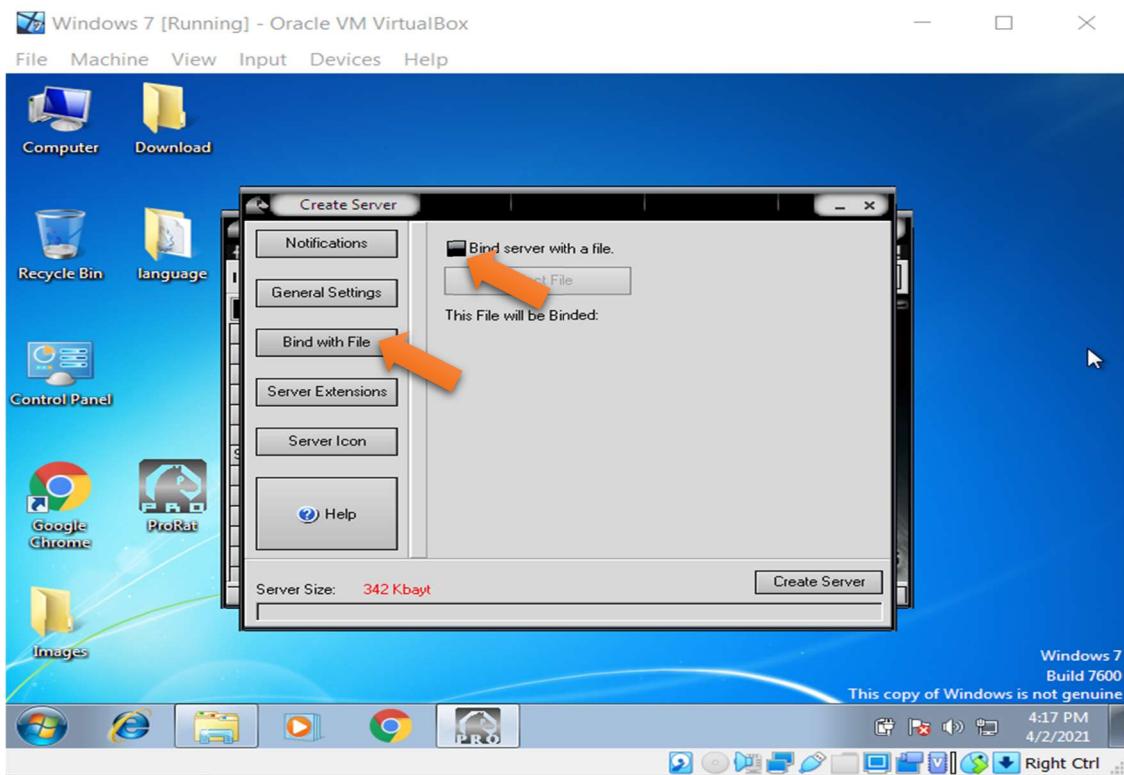
Step 3:- Double click on ProRat to open.



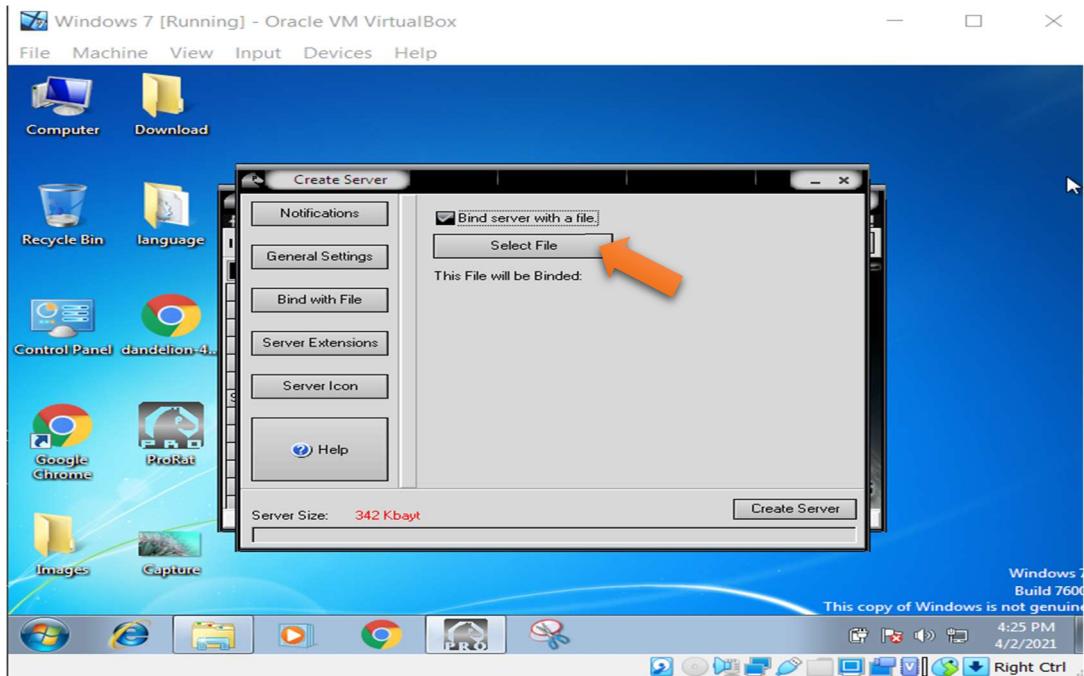
Step 4:- Click on Create.



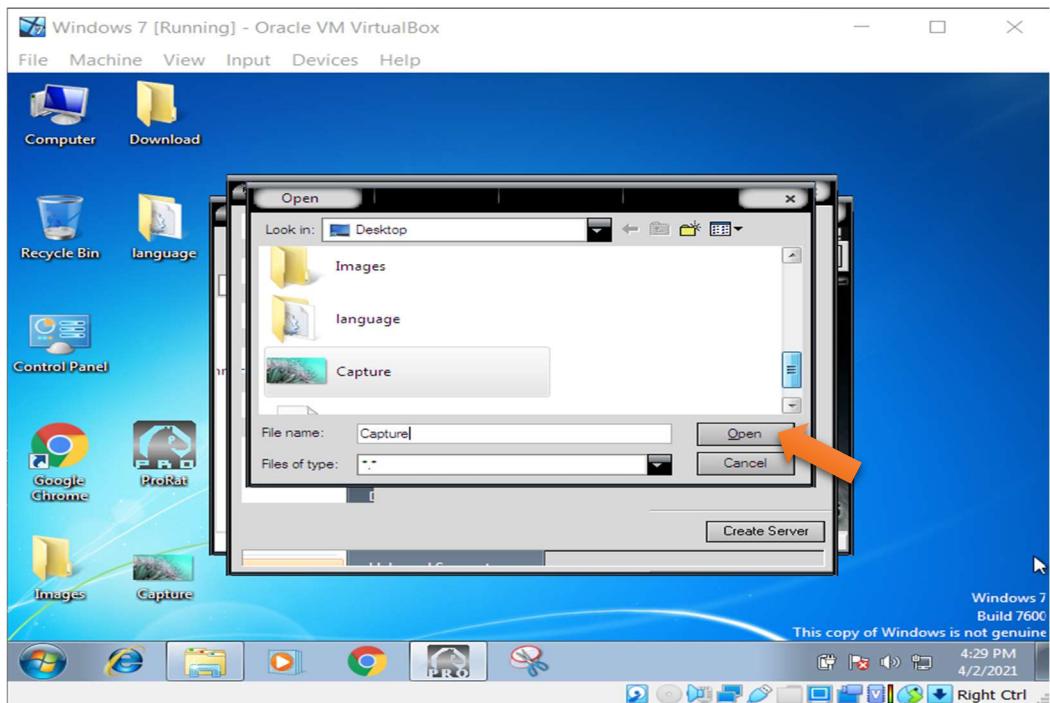
Step 5:- Click on General Settings & Leave default settings.



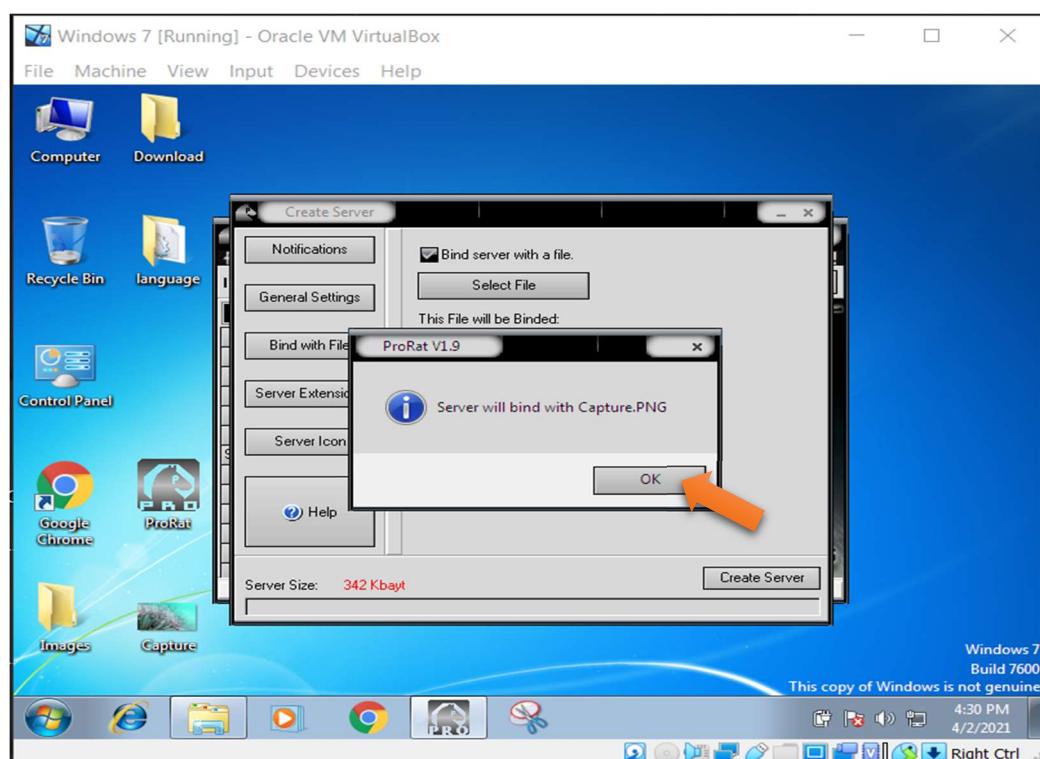
Step 6:- Click on Bind with file & Bind Server with file .



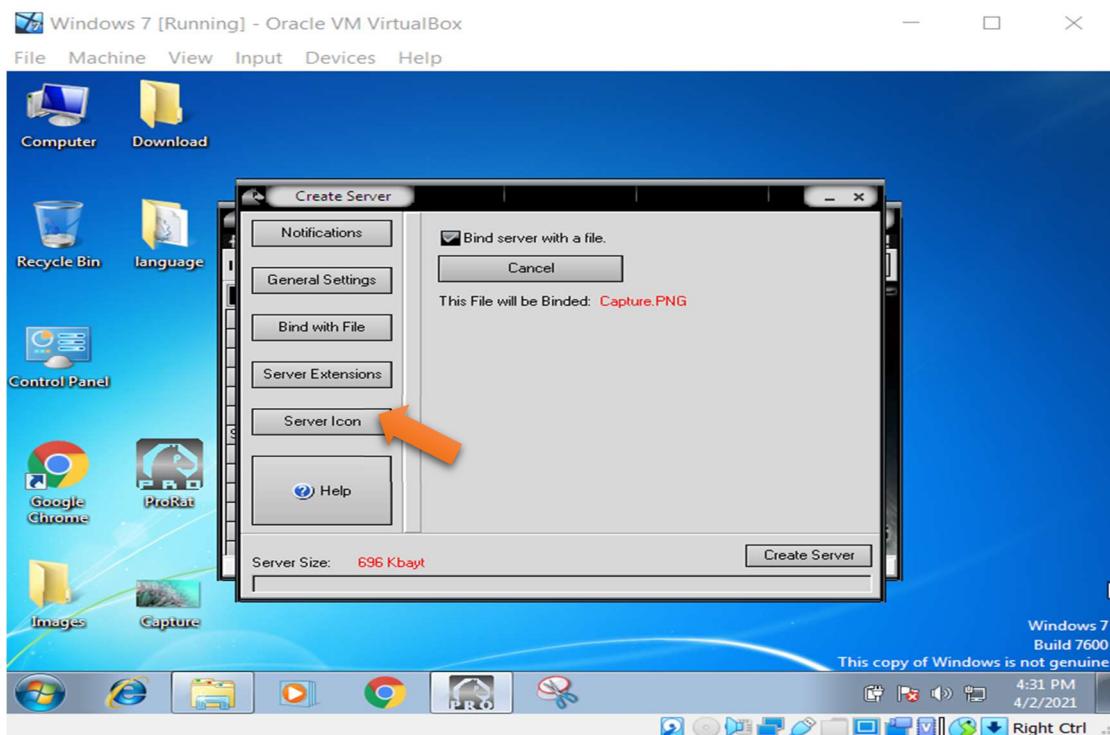
Step 7:- Click on Select File.



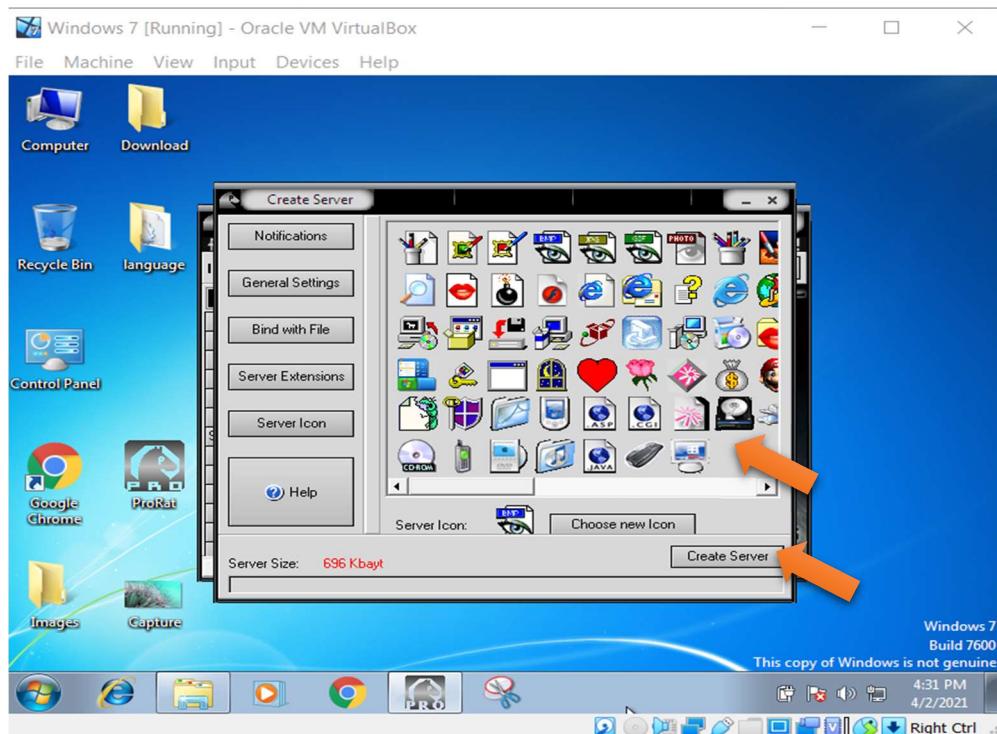
Step 8:- Select any image & Click on Open.



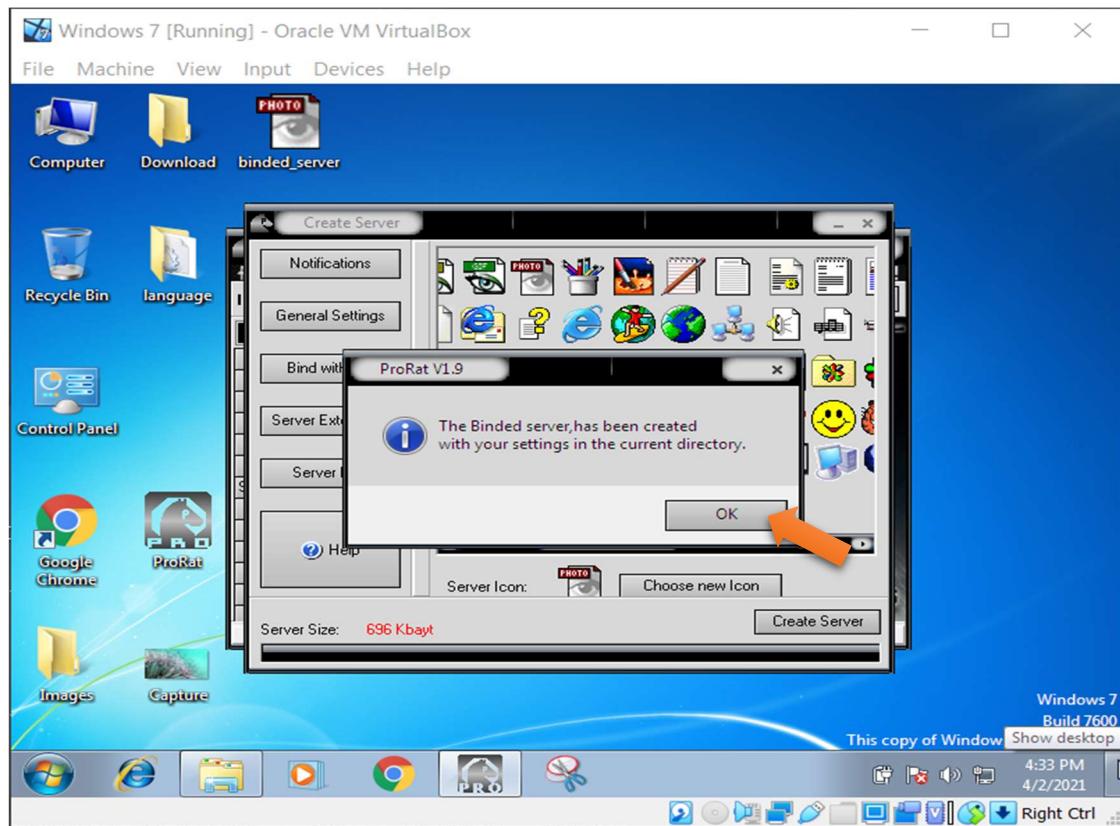
Step 9:- Click on Ok.



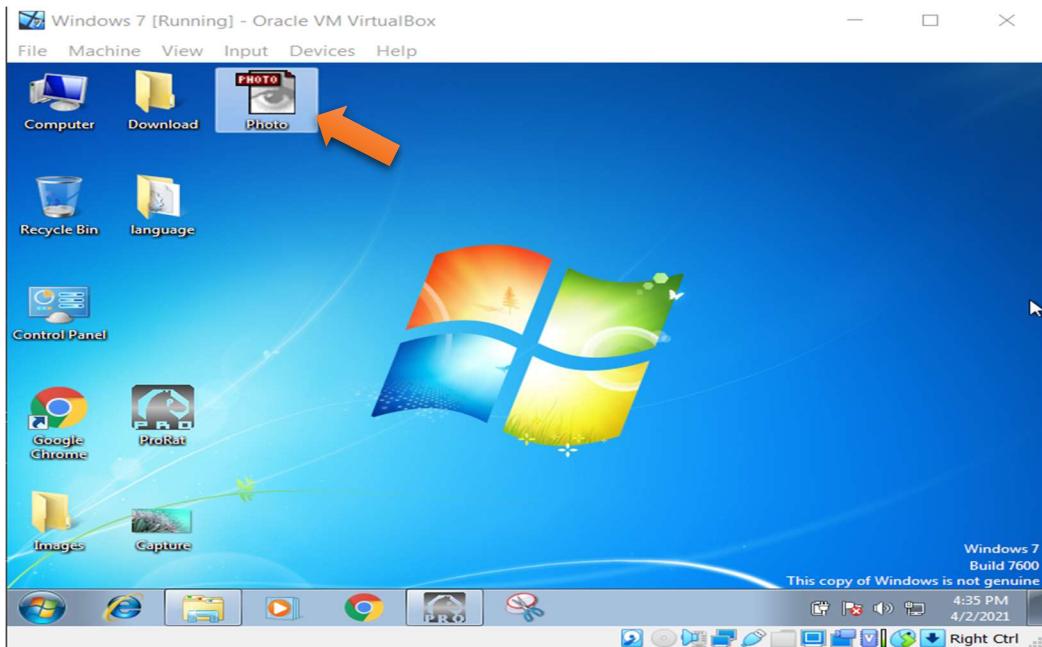
Step 10:- Click on Server Icon.



Step 11:- Click on Any icon & Click on Create Server .



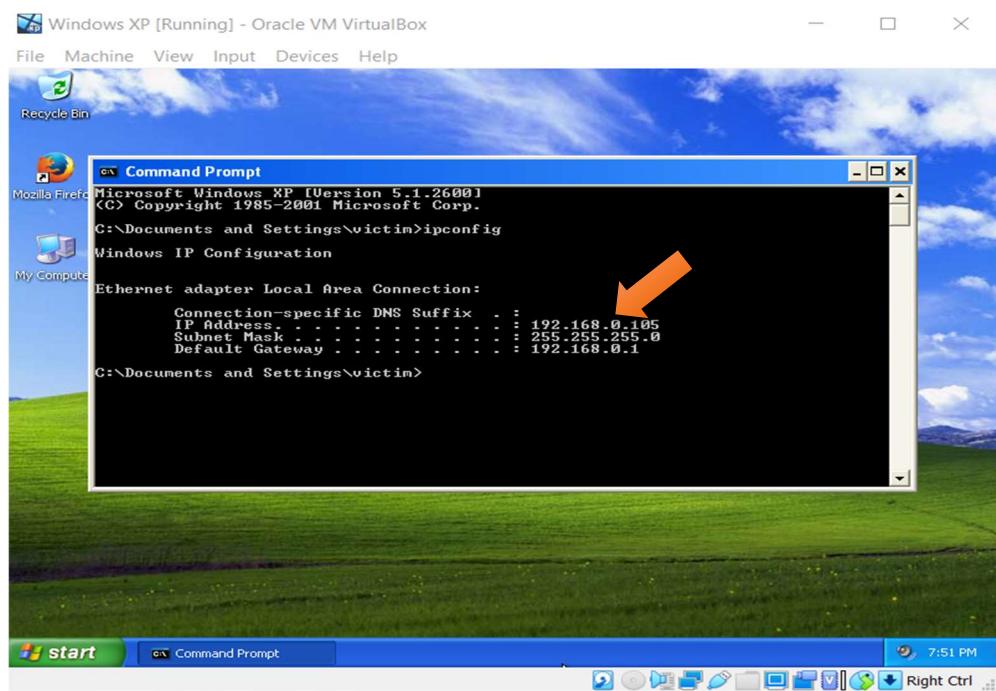
Step 12:- Click on Ok.



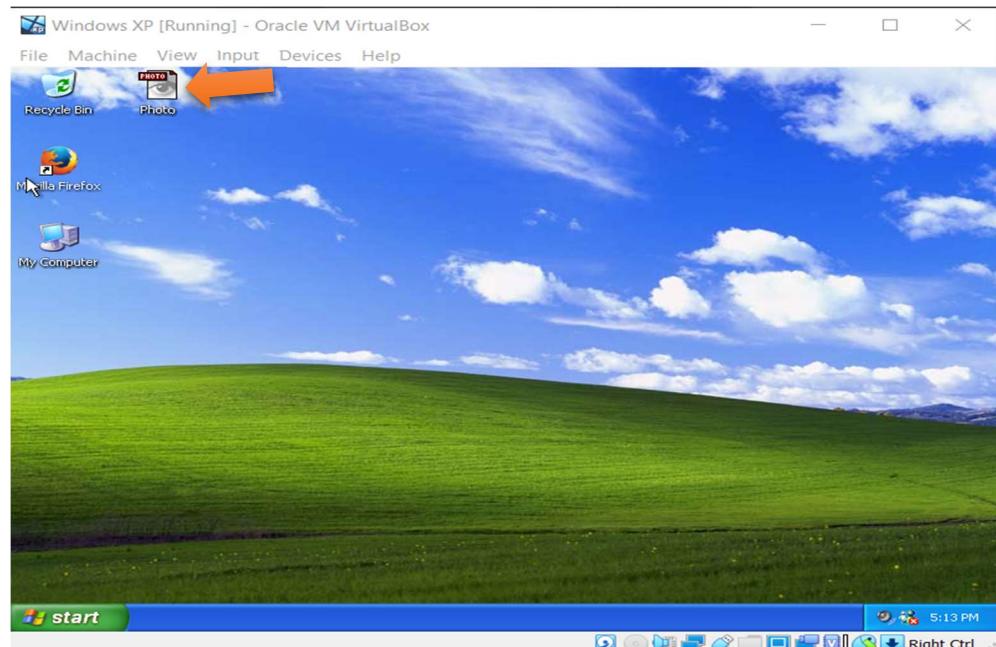
Step 13:- Now Trojan is Ready.

Step 14:- Now send Trojan to Victim using any pendrive or other sources.

Step 15:- Know the ip address of Victim.

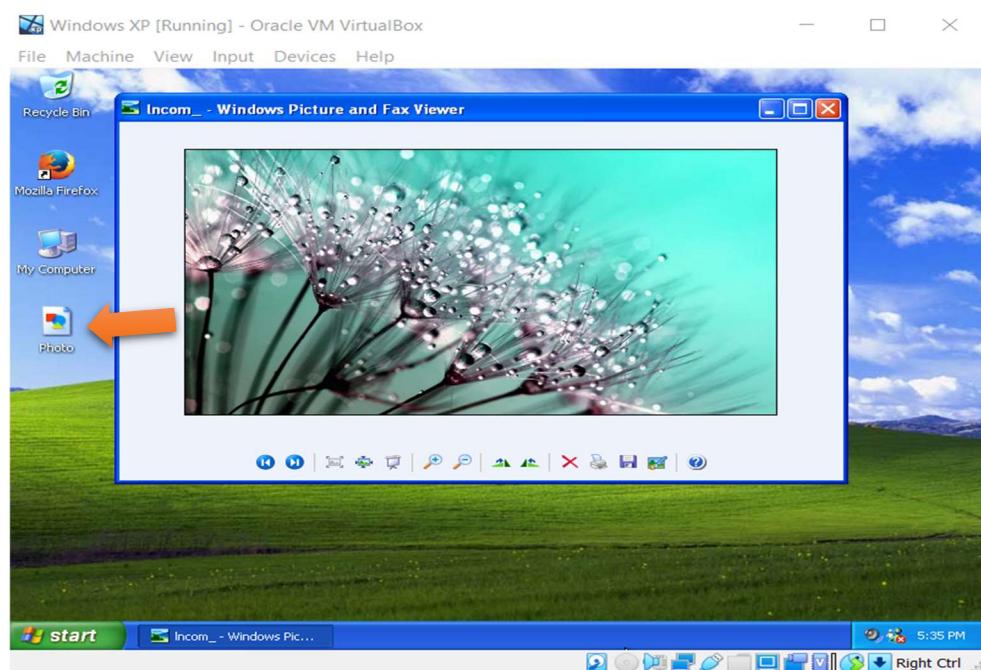


Step 16:- Ip address of Victim is 192.168.0.105 .

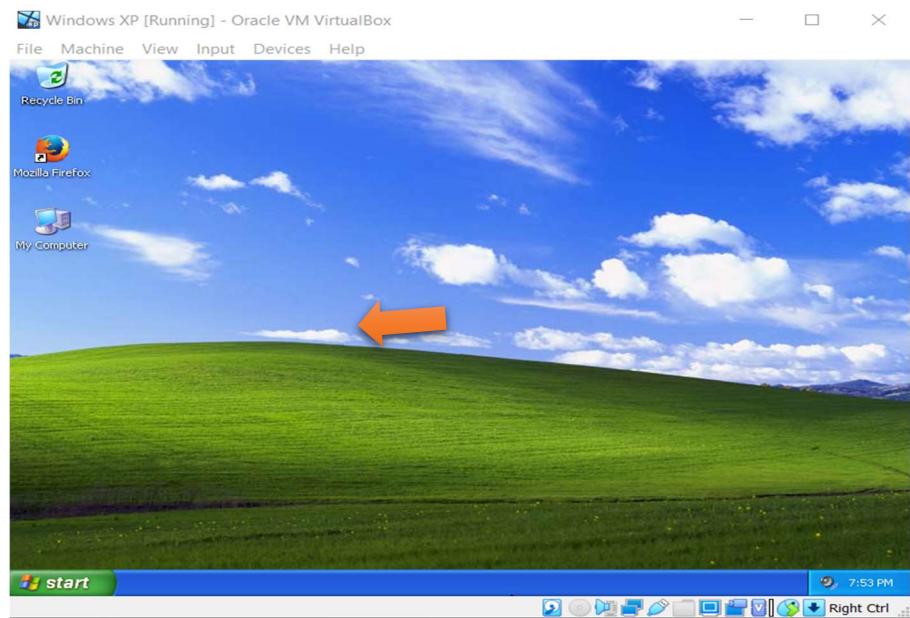


Step 17:- Trojan in Victim machine.

Step 18:- Double click on image.



Step 19:- Trojan install in Victim machine.



Step 20:- Before Attack.



Step 21:- Enter ip address 192.168.0.105 & Click on connect.



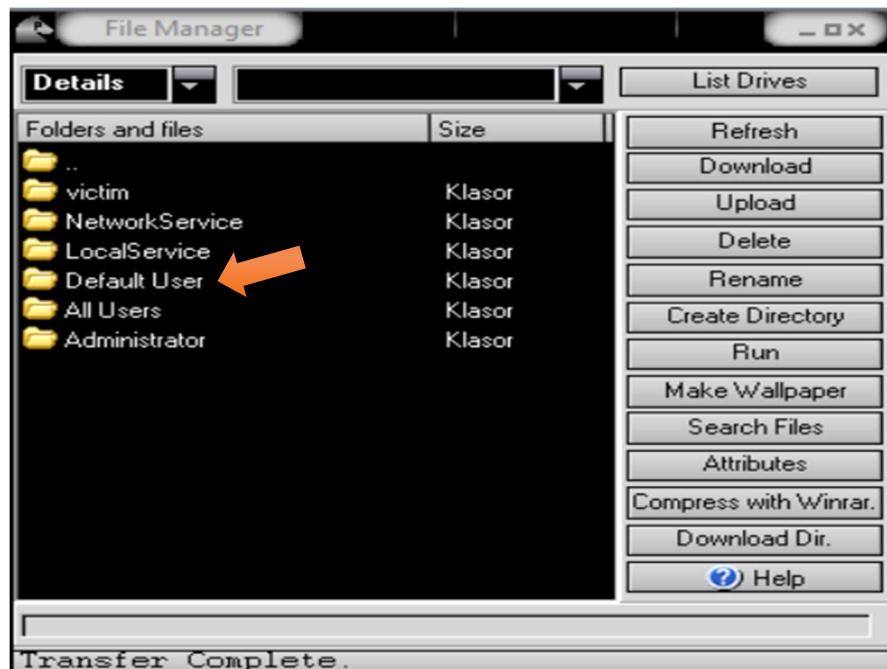
Step 22:- Enter created password 1234556 & Click on Ok.



Step 23:- Click on File Manager.



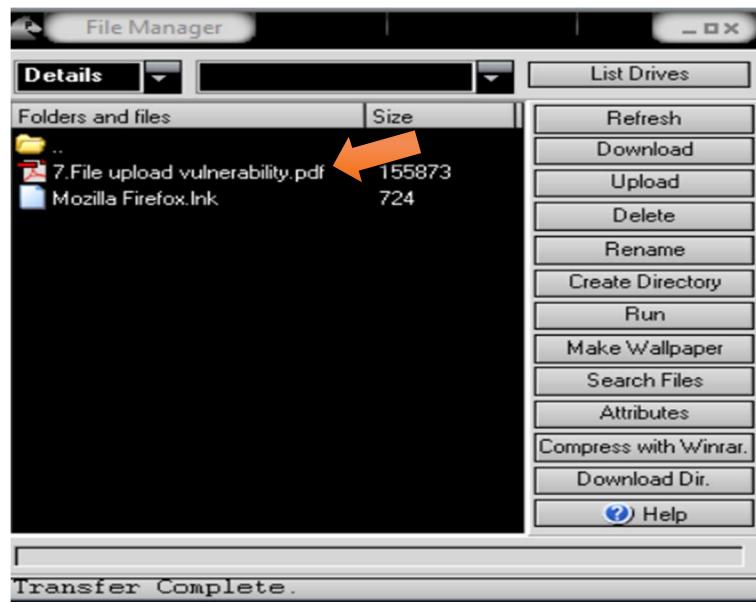
Step 24:- Click on Documents and Settings.



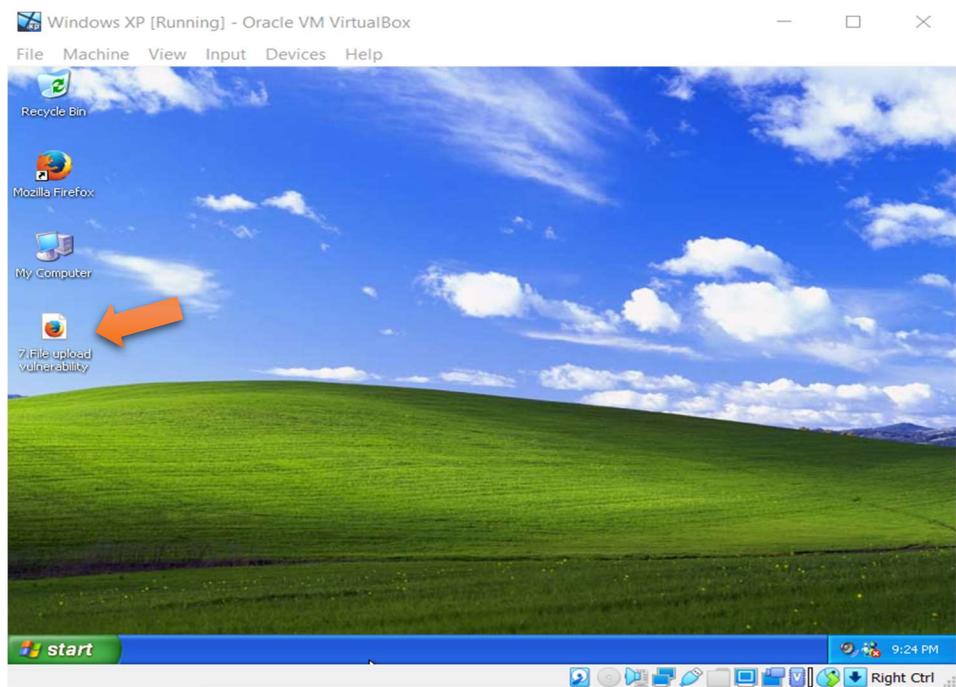
Step 25:- Click on All User.



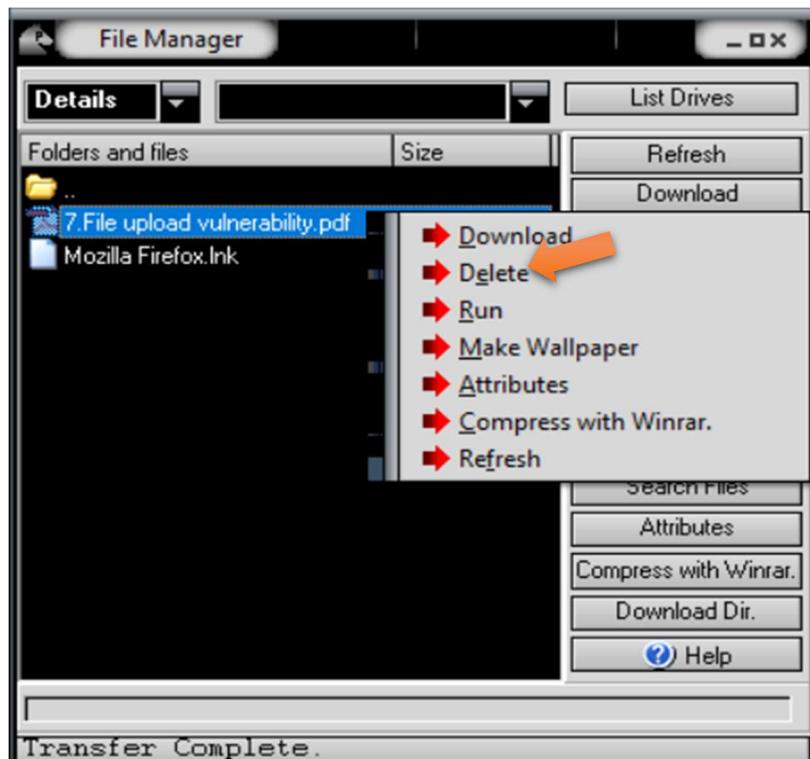
Step 26:- Click on Desktop.



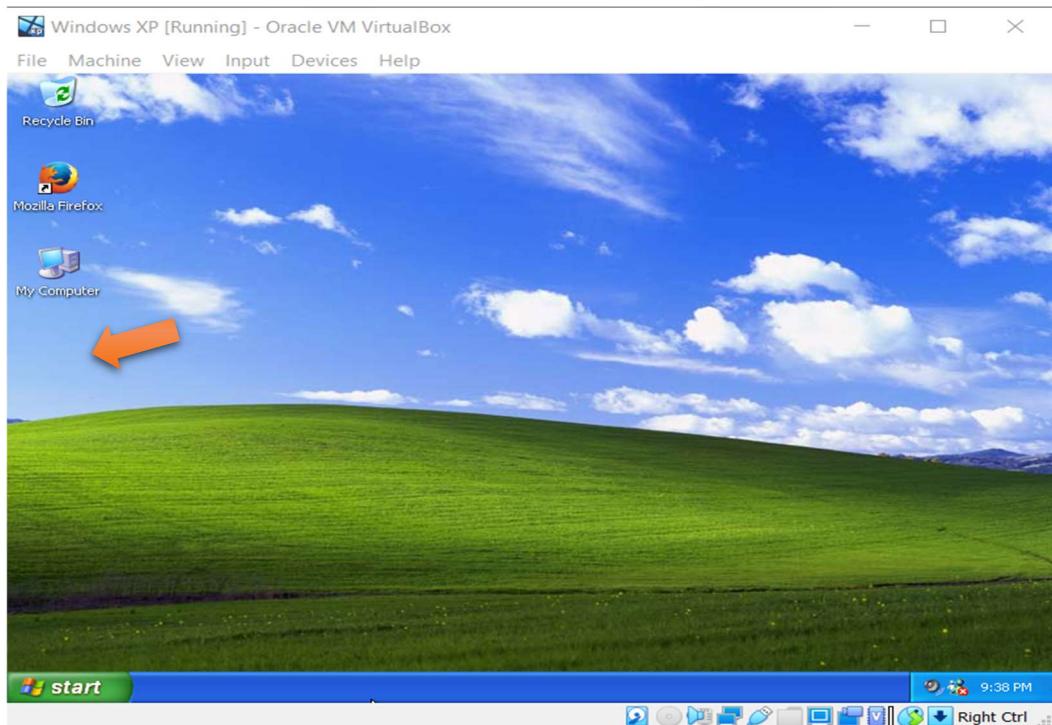
Step 27:- File on desktop.



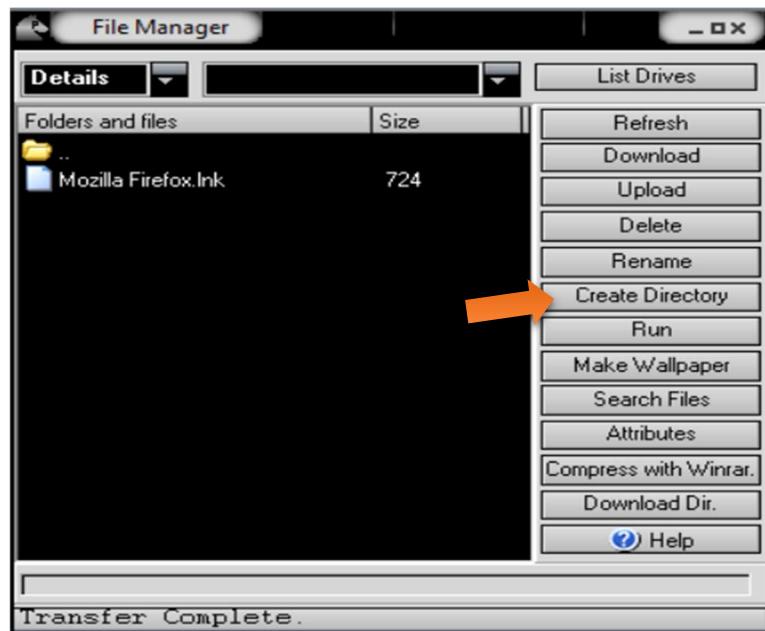
Step 28:- File on Desktop.



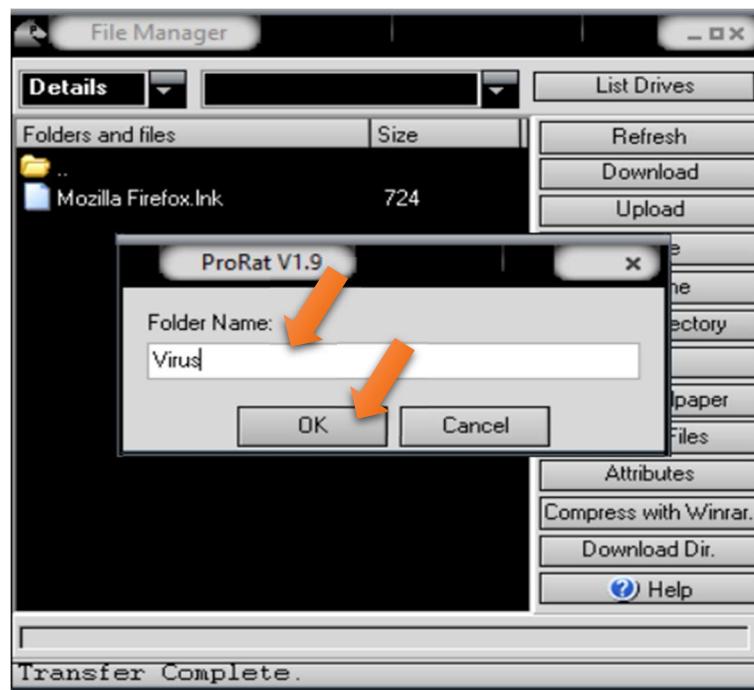
Step 29:- File is Ready For Deleting & Click on Delete.



Step 30:- After Attack File was Deleted.



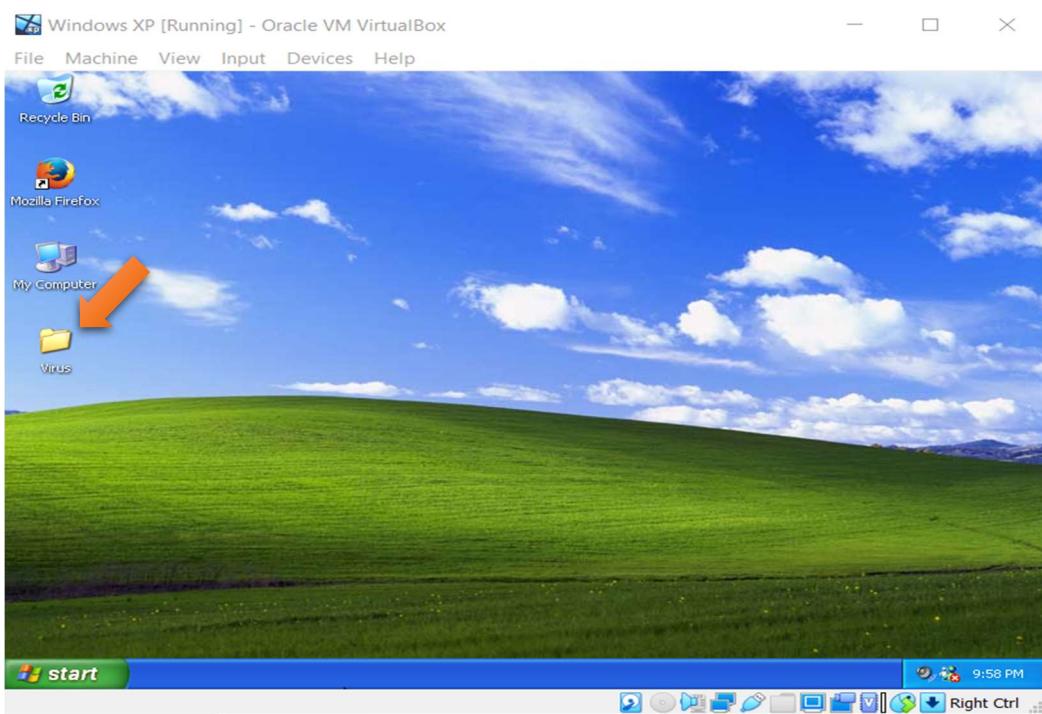
Step 31:- Click on Create Directory.



Step 32:- Create Folder Name & Click on Ok.



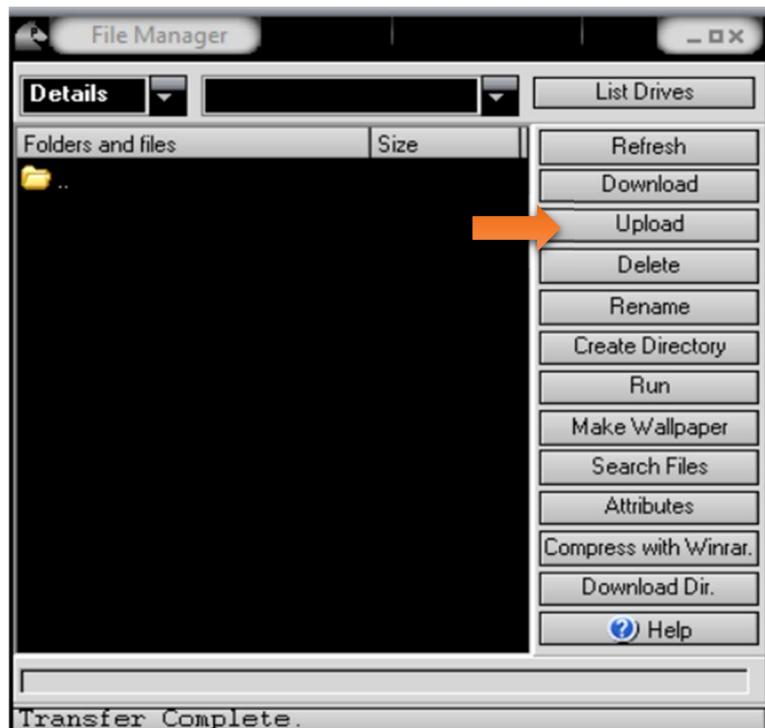
Step 33:- Folder Created on Desktop.



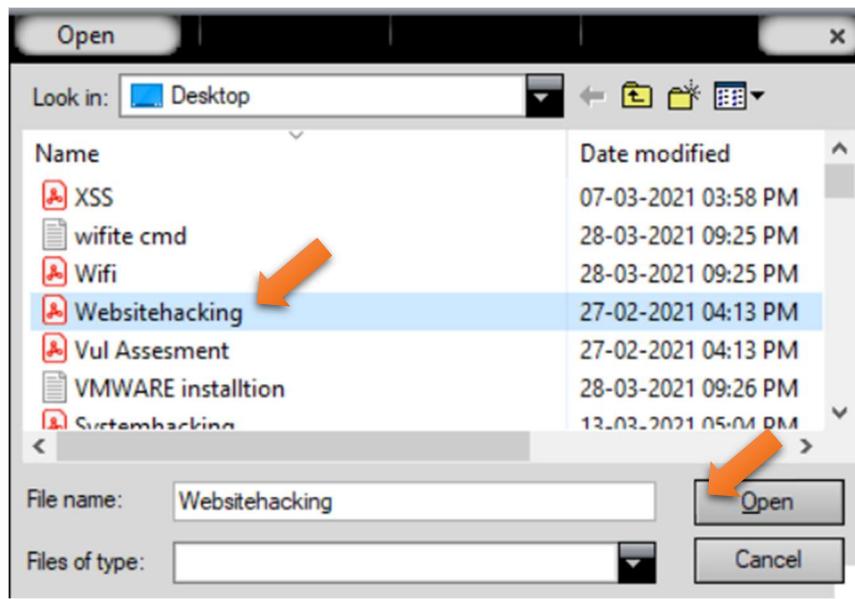
Step 34:- Folder Created on Desktop.



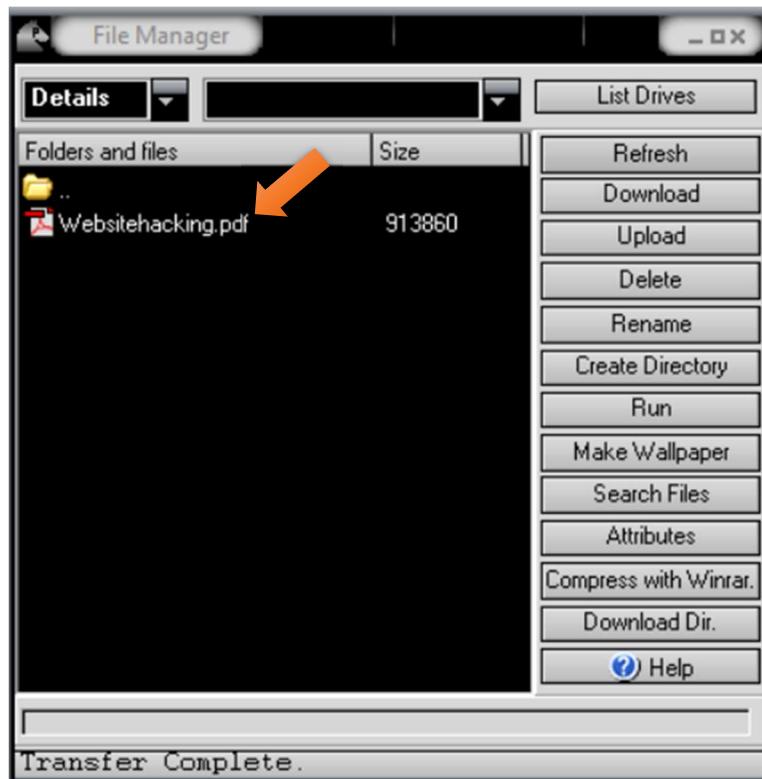
Step 35:- Open Virus Folder.



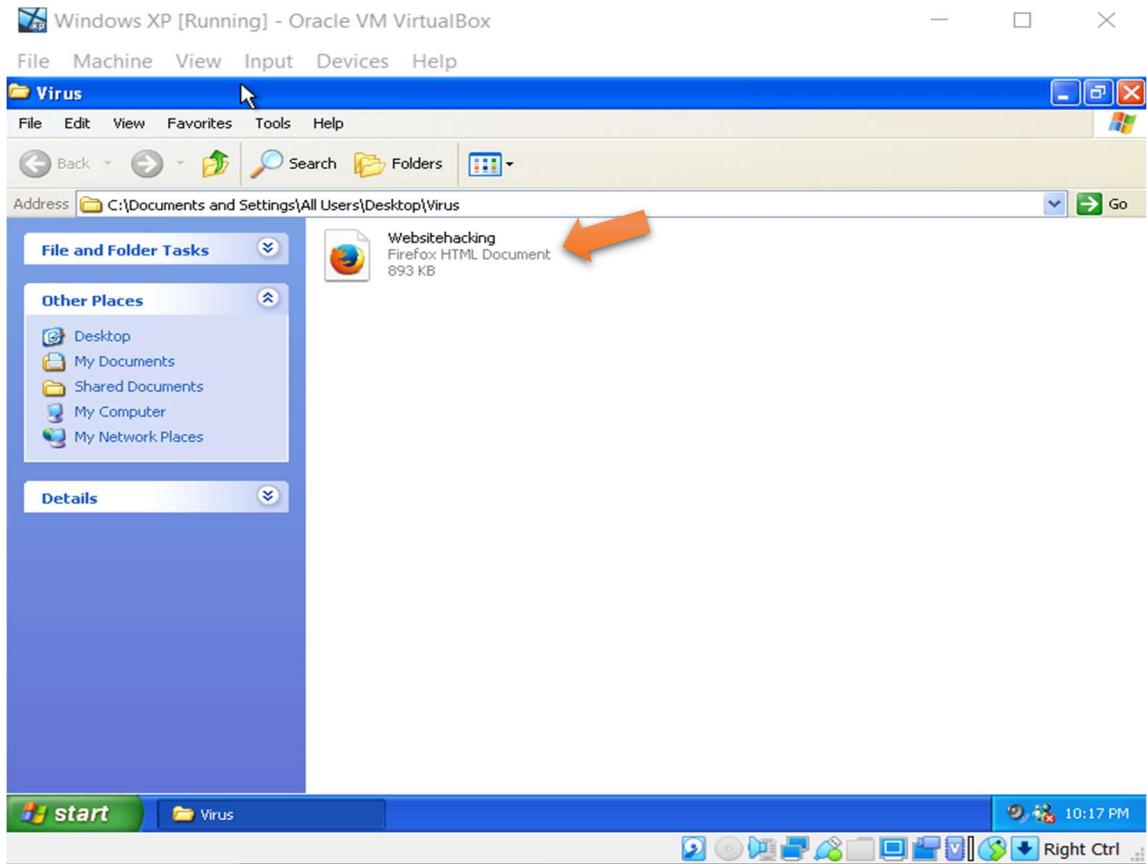
Step 36:- Click on Upload.



Step 37:- Click on Any File to upload & Click on Open.



Step 38:- File upload From Hacker system to Victim system . On Virus Folder.



Step 39:- File upload From Hacker system to Victim system . On Virus Folder.

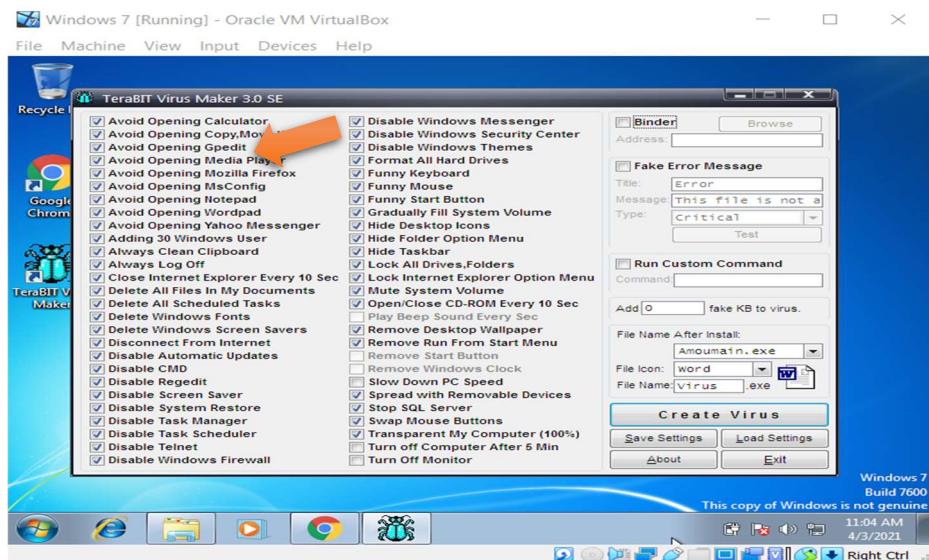
3. Malware Creation, Exploitation, and Mobile Hacking.

- Create a virus using Tetrabit Virus Maker and execute the virus in the victim machine.

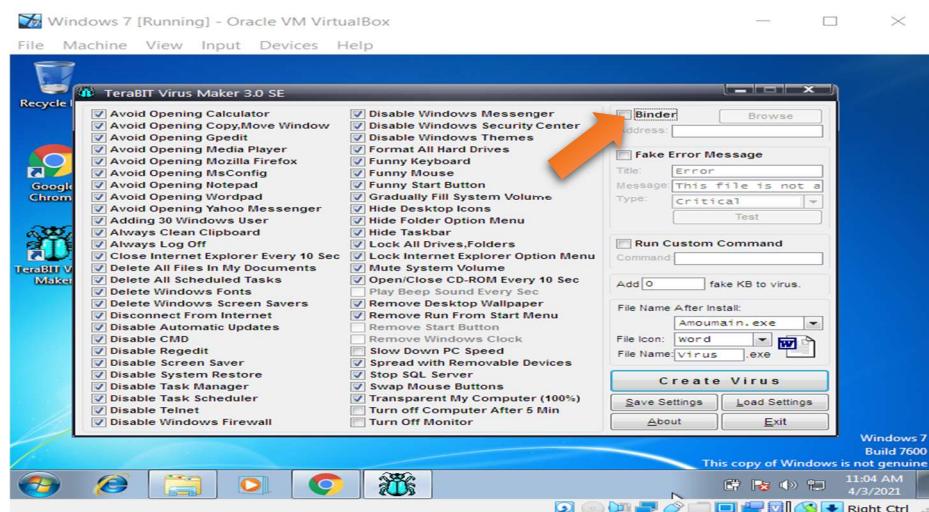
Tetrabit Virus Maker:-

Step 1:- Download Tetrabit Virus Maker.

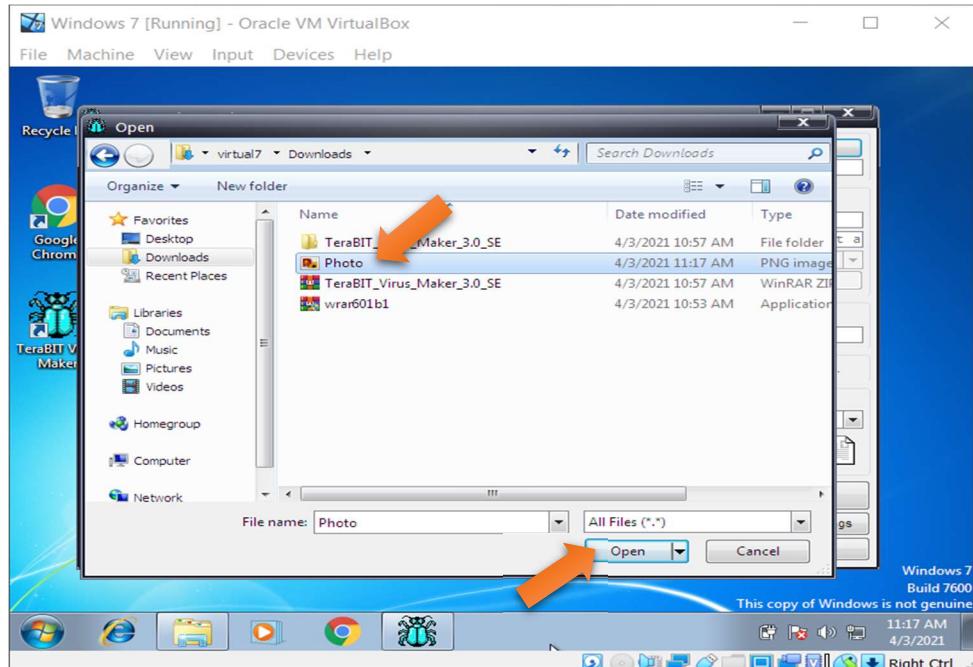
Step 2:- Instal Tetrabit Virus Maker.



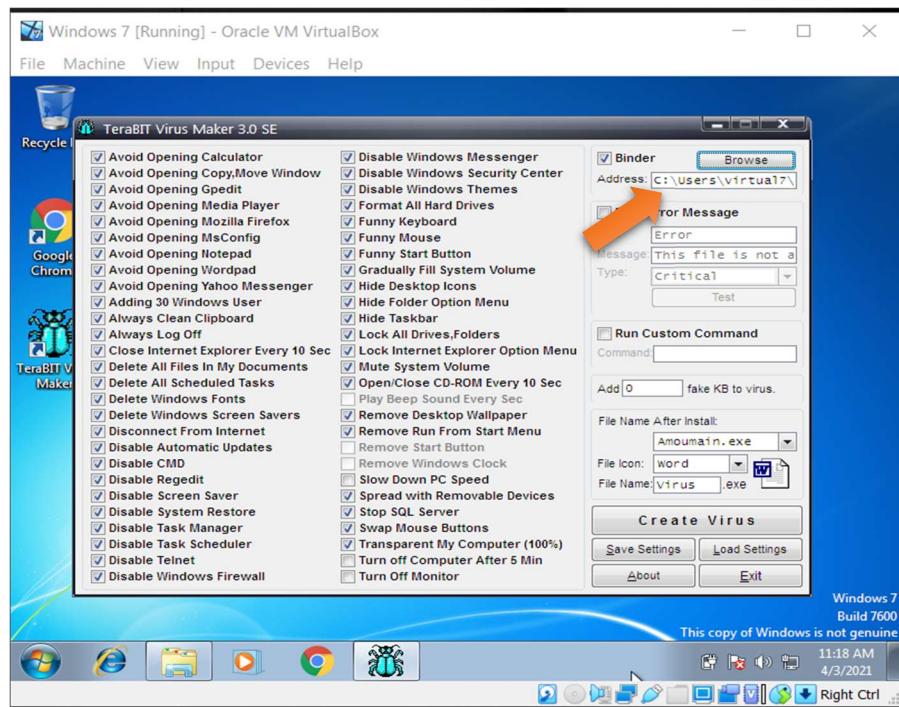
Step 3:- Select options we need.



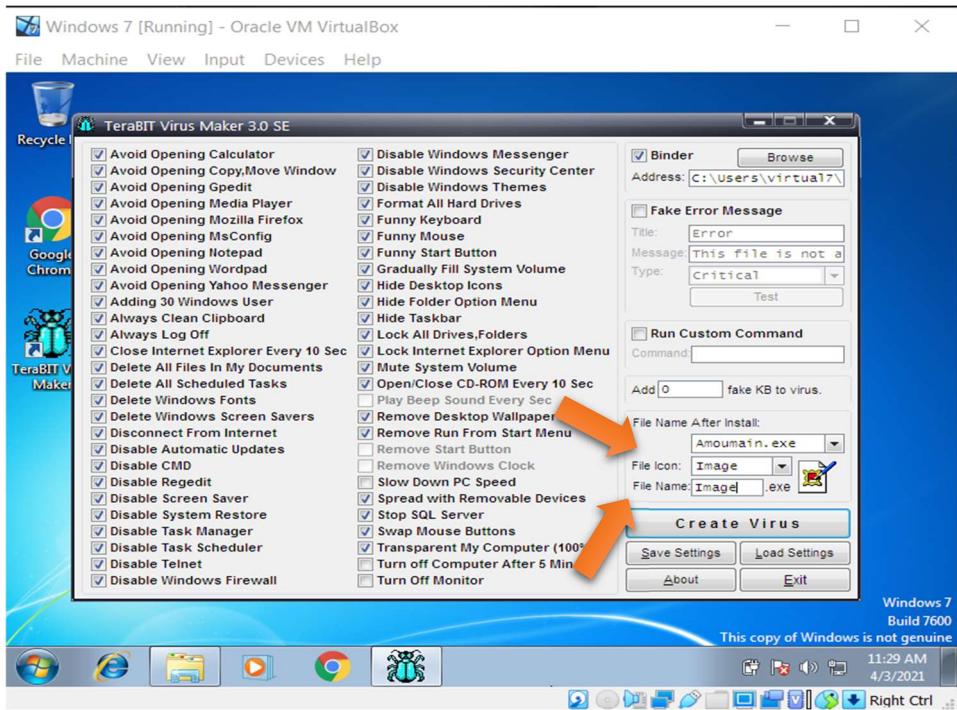
Step 4:- Click on Binder & Browse File.



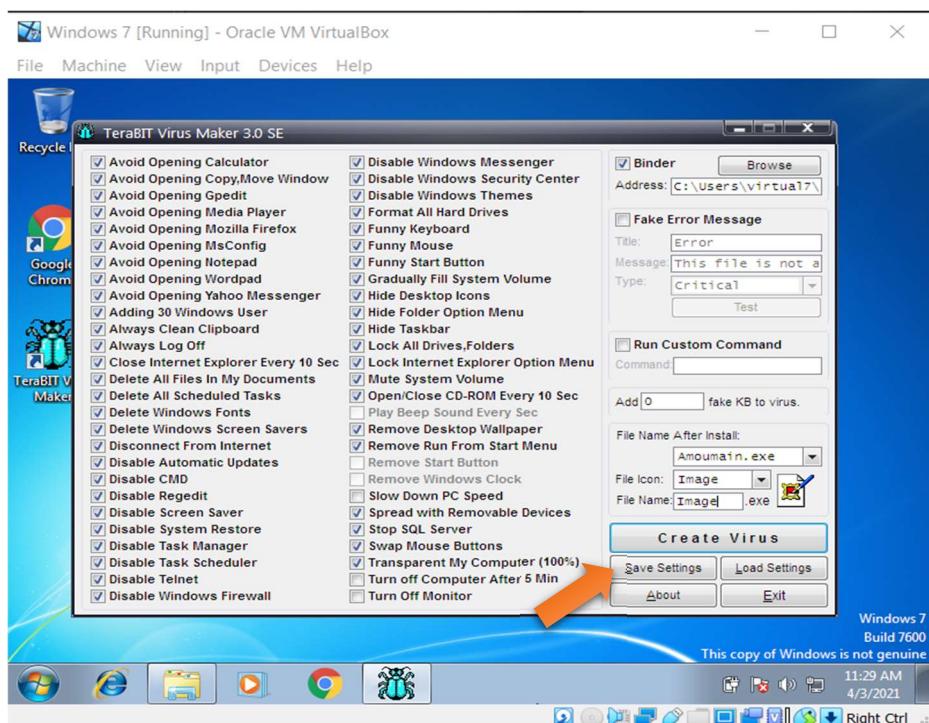
Step 5:- Select Any image & Click on Open.



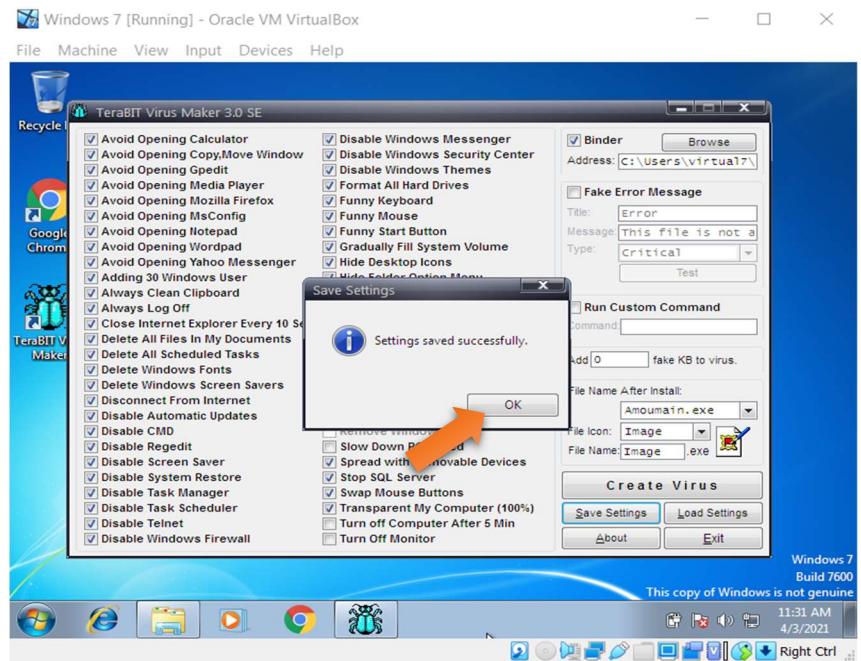
Step 6:- Virus is Binder with image.



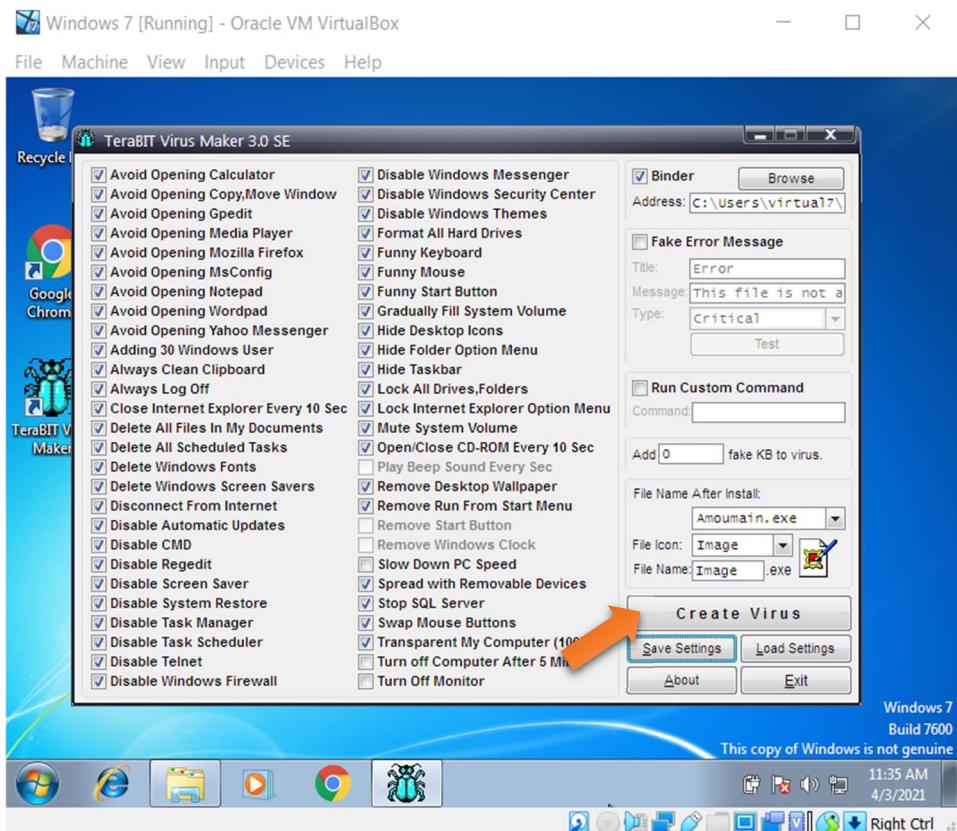
Step 7:- Select File icon & Select Name.



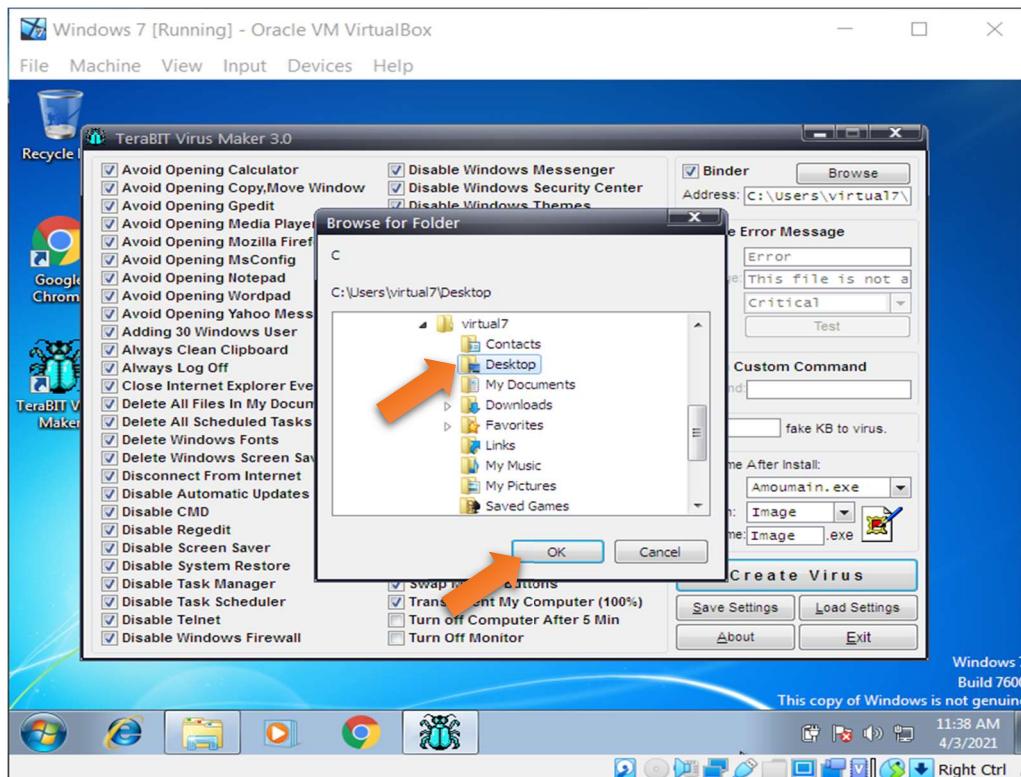
Step 8 :- Click on save settings.



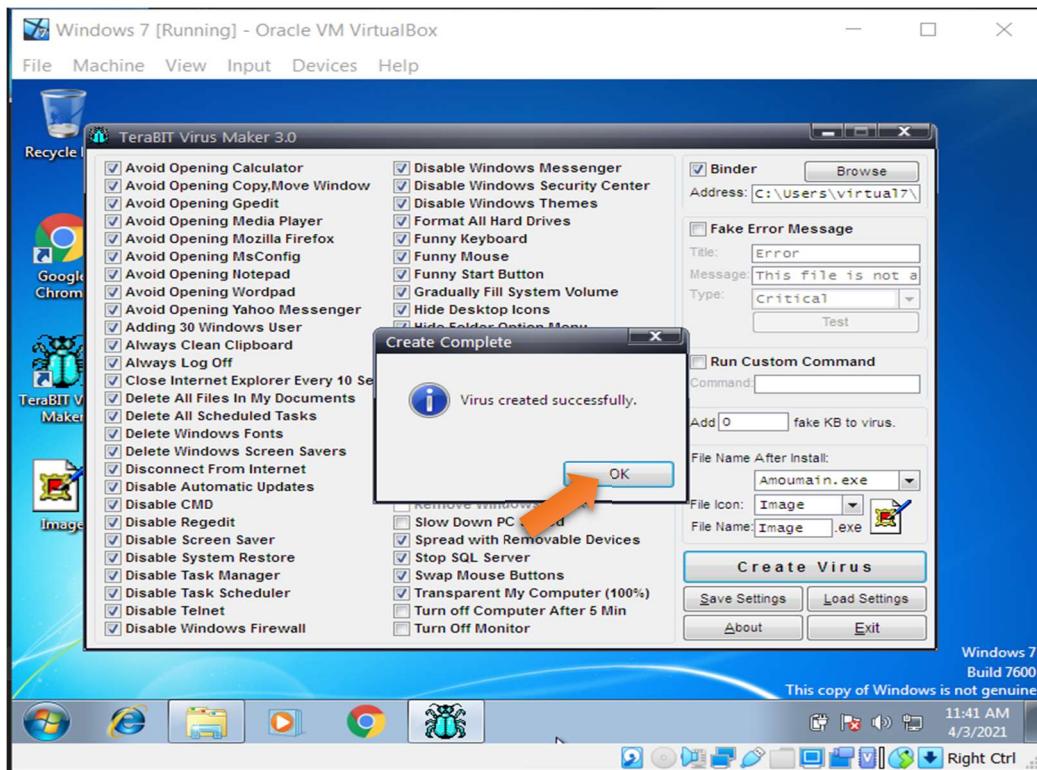
Step 9:- Click on Ok.



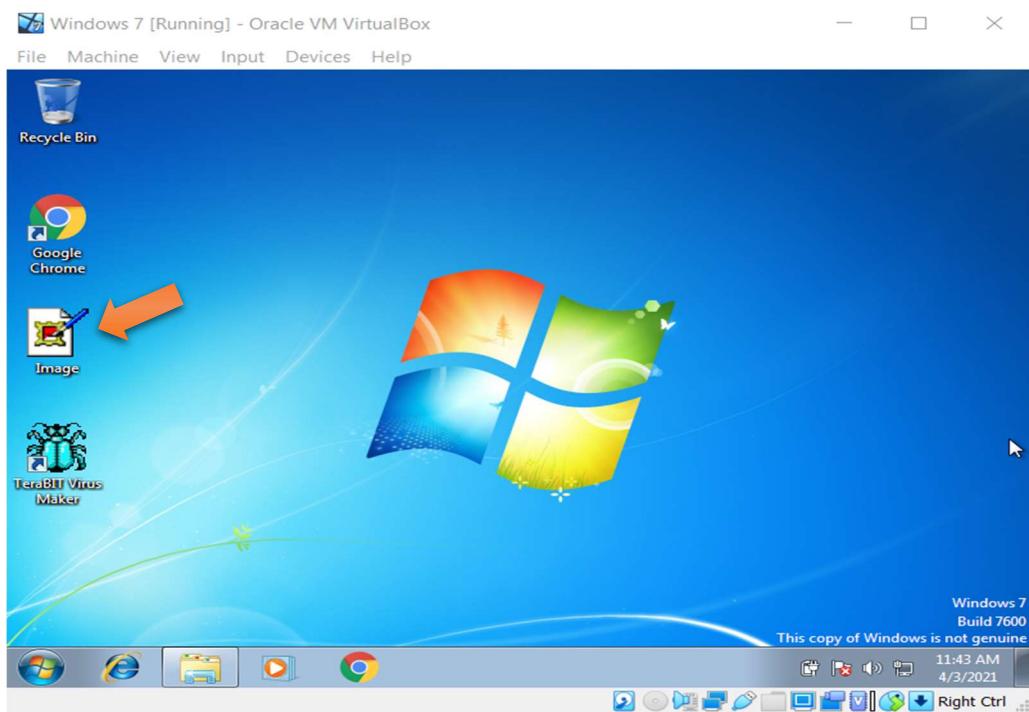
Step 10:- Click on Create Virus.



Step 11:- Select Desktop to Save Virus File & Click on Ok.

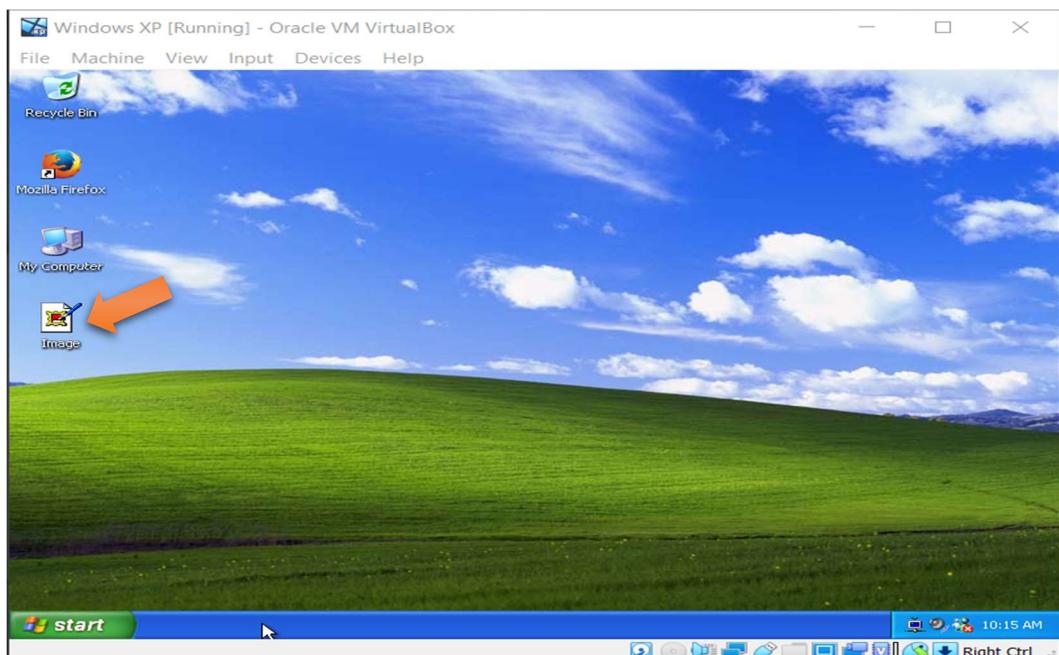


Step 12:- Click on Ok.

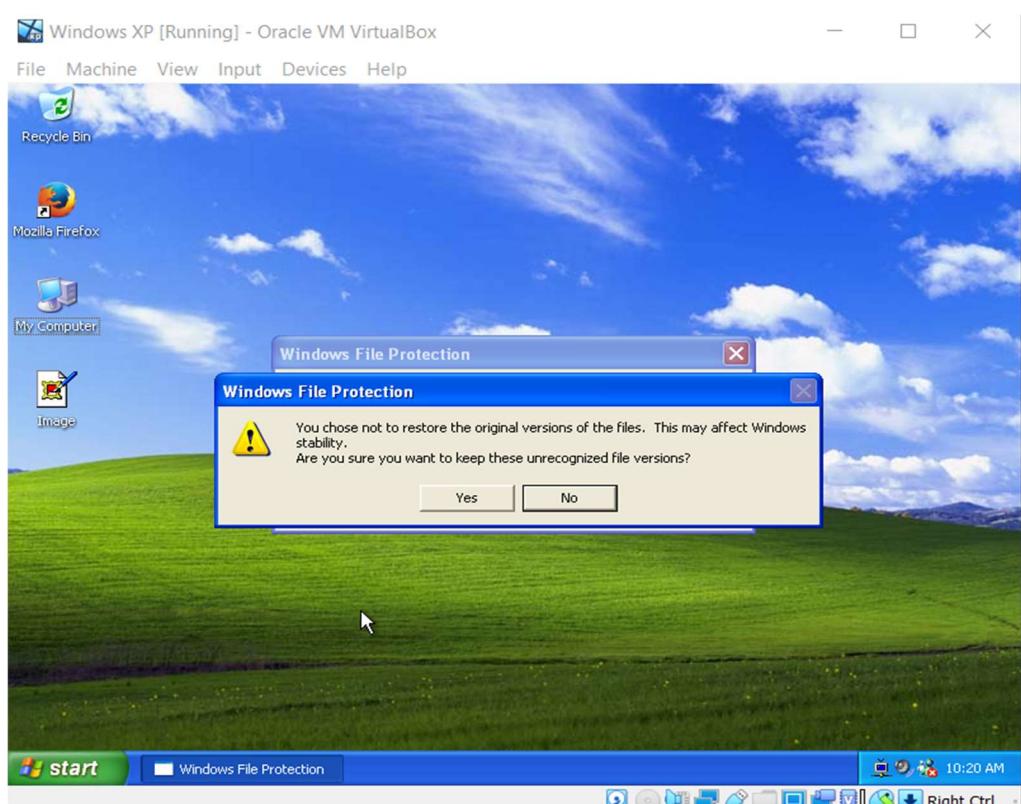
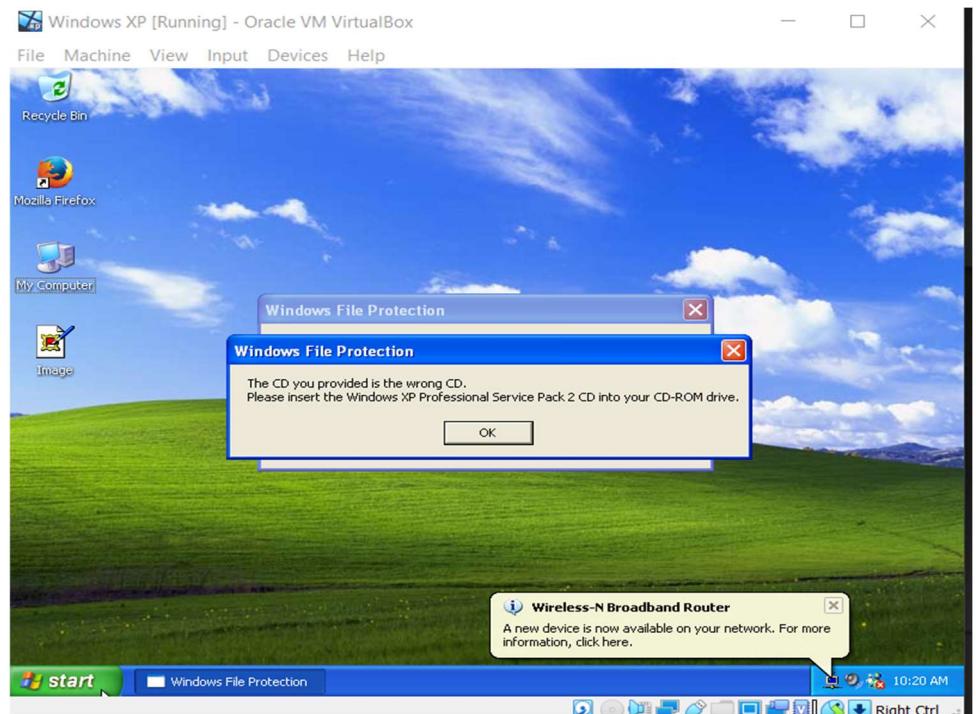


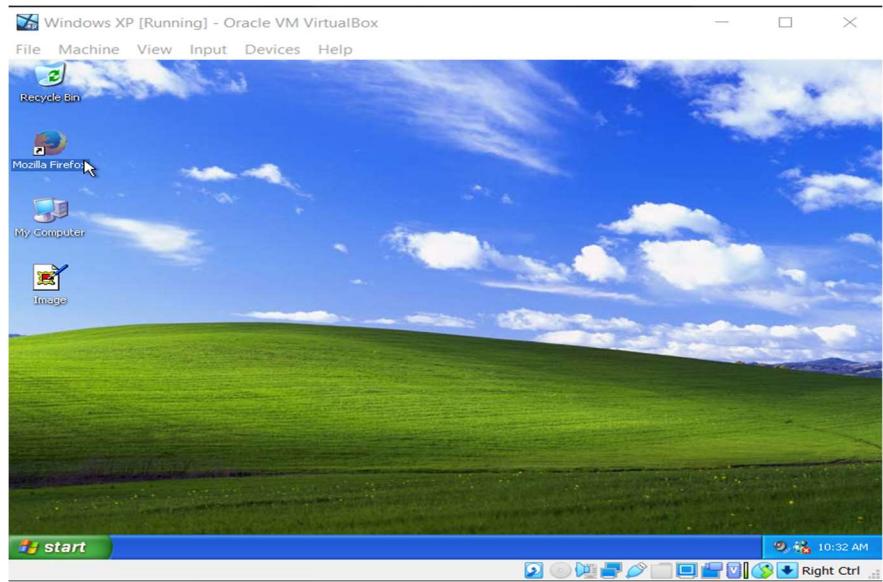
Step 13:- Virus file is Created.

Step 14:- Send Virus File to Victim system Using pendrive or other source.

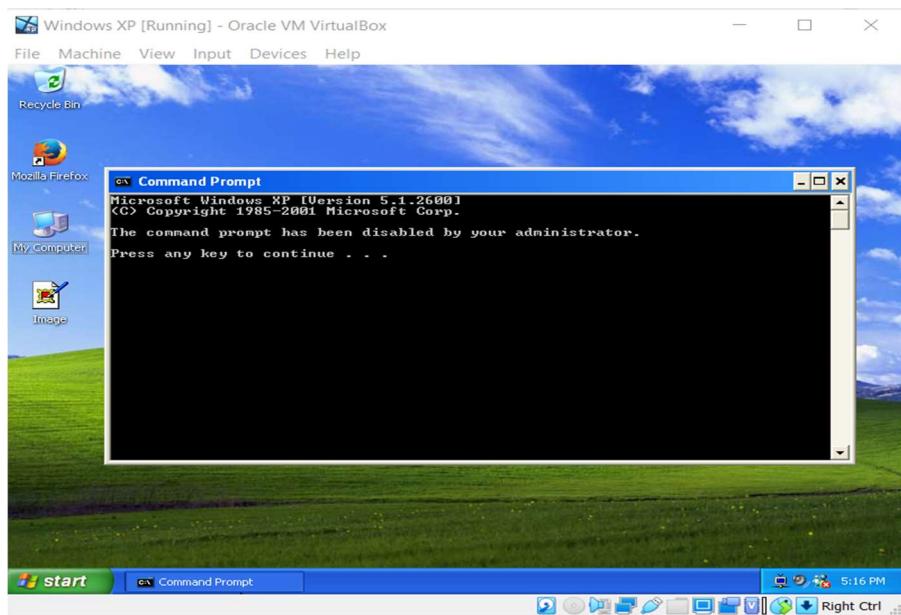


Step 15:- Before Attack. Virus in Victim system.





Step 16:- System was hanging.



Step 17:- Command prompt is Disabled.

Step 18:- Victim system was not working properly.

- Hack the mobile device using online tool MTF, gather the call list contacts, and access the camera.

Step 1:- Instal MTF on Victim Mobile.

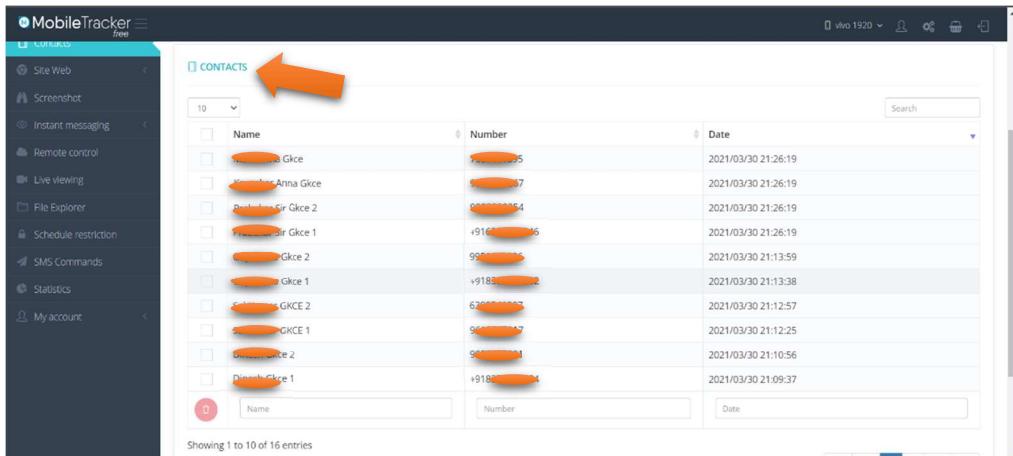
The screenshot shows the MTF dashboard for a 'vivo 1920' device connected on '2021/04/04 11:01:52'. The top bar displays the device name and battery level (94%). Below this, a summary section shows 'Online status', 'Battery 94%', and 'Last location' (DOS Colony Bus Stop, Sullurupeta, Andhra Pradesh 524121, India). An orange arrow points to the 'Last location' box. The main dashboard area contains eight cards: 0 SMS, 0 MMS, 0 CALLS, 1 LOCATIONS, 0 PICTURES, 22 APPS, 0 CALENDAR, and 16 CONTACTS.

Step 2:- MTF Login in my System. Victim mobile is connected.

The screenshot shows the 'CALLS' section of the MTF interface. It displays three outgoing calls made from the victim's phone. An orange arrow points to the 'CALLS' tab. The table shows the following data:

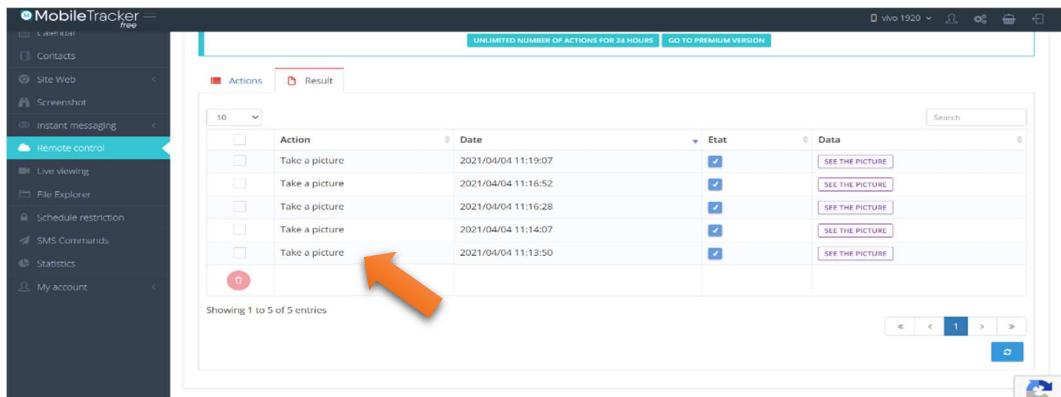
Type	Name	Number	Duration	Date	Address
OUTGOING	Kiran Anna Gkce	+91_____67	00 minute 00 second	2021/04/04 11:06:30	Government Hospital Rd, Sullurupeta, Andhra Pradesh 524121, India
OUTGOING	Gopika Gkce 1	+91_____02	00 minute 00 second	2021/04/04 11:06:21	Government Hospital Rd, Sullurupeta, Andhra Pradesh 524121, India
OUTGOING	Dinesh 1	+91_____24	00 minute 00 second	2021/04/04 11:06:14	Government Hospital Rd, Sullurupeta, Andhra Pradesh 524121, India

Step 3:- Call List of Victim.



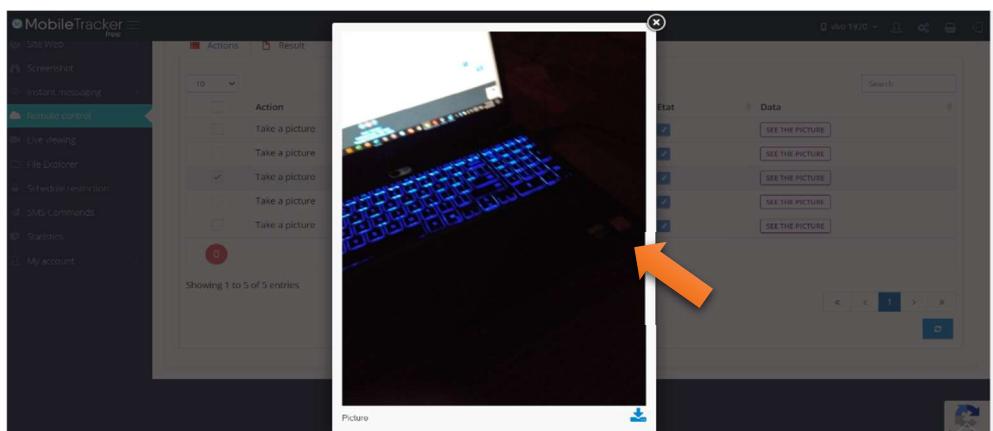
Name	Number	Date
Gkce	+918545	2021/03/30 21:26:19
Gkce Anna Gkce	+918547	2021/03/30 21:26:19
Park Jang Gkce 2	+9185454	2021/03/30 21:26:19
Park Jang Gkce 1	+9185456	2021/03/30 21:26:19
Gkce 2	+918545	2021/03/30 21:13:38
Gkce 1	+918545	2021/03/30 21:13:38
GKCE 2	+918545	2021/03/30 21:12:57
GKCE 1	+918545	2021/03/30 21:12:57
Gkce 2	+918545	2021/03/30 21:10:56
Gkce 1	+918545	2021/03/30 21:09:37

Step 4:- Contacts List of Victim.



Action	Date	Etat	Data
Take a picture	2021/04/04 11:19:07	<input checked="" type="checkbox"/>	SEE THE PICTURE
Take a picture	2021/04/04 11:16:52	<input checked="" type="checkbox"/>	SEE THE PICTURE
Take a picture	2021/04/04 11:16:28	<input checked="" type="checkbox"/>	SEE THE PICTURE
Take a picture	2021/04/04 11:14:07	<input checked="" type="checkbox"/>	SEE THE PICTURE
Take a picture	2021/04/04 11:13:50	<input checked="" type="checkbox"/>	SEE THE PICTURE

Step 5:- Victim Mobile Camera Take Picture.



Step 6:- Picture From Victim Mobile Camera.

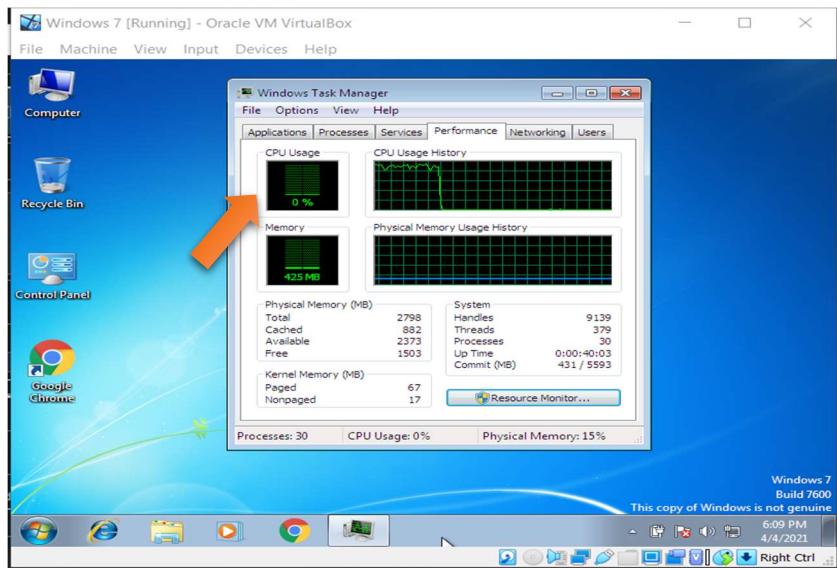
4. Website Penetration Testing .

- Perform a DOS attack on windows 7 virtual machine using the LOIC tool and check the performance.

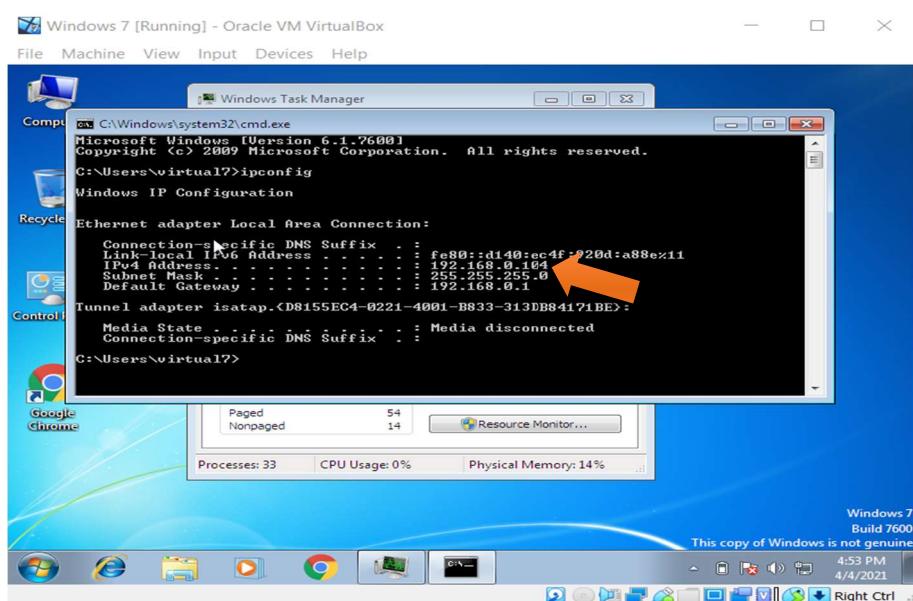
DOS attack:-

Step 1:- Download LOIC tool.

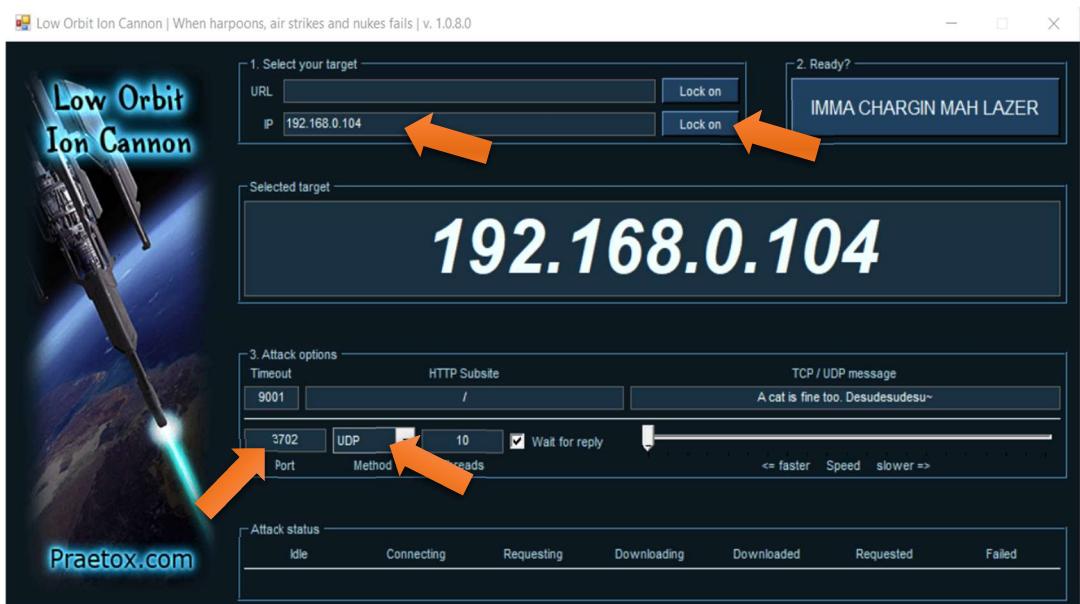
Step 2:- Double click to Open LOIC tool.



Step 3:- Before DOS attack on windows 7 virtual machine of Victim System.

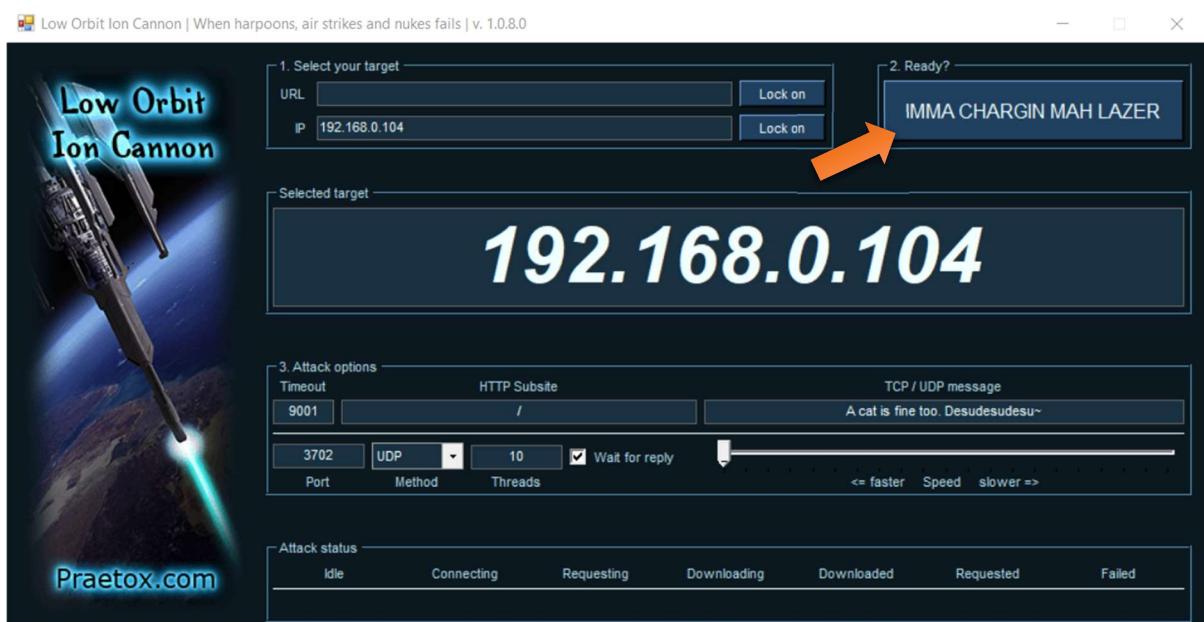


Step 4:- Victim ip Address is 192.168.0.104 .

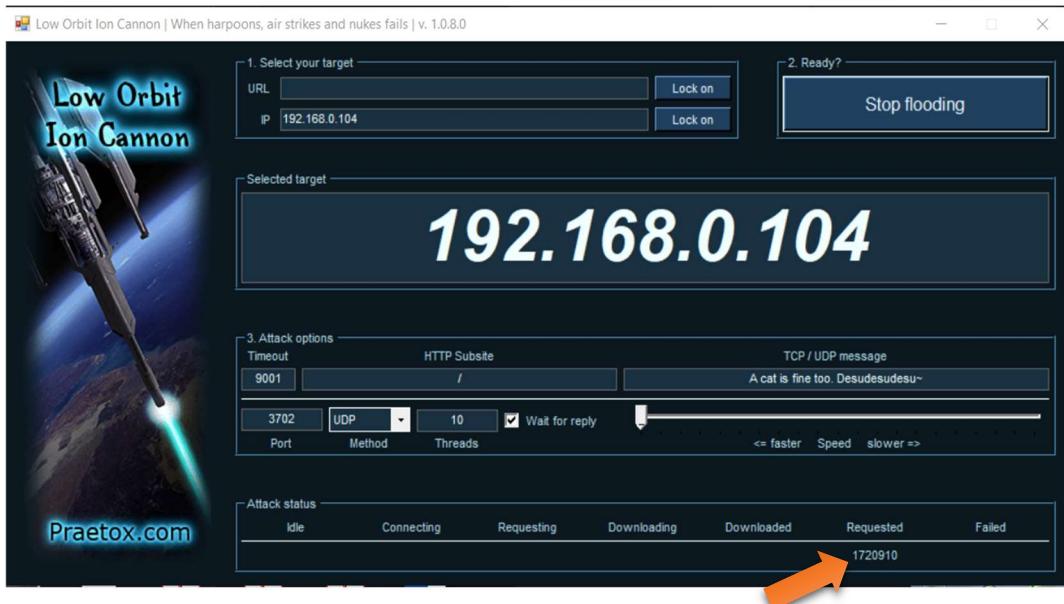


Step 5:- Enter Ip address & Click on Lock on . Select Port 3702 & Select Method UDP.

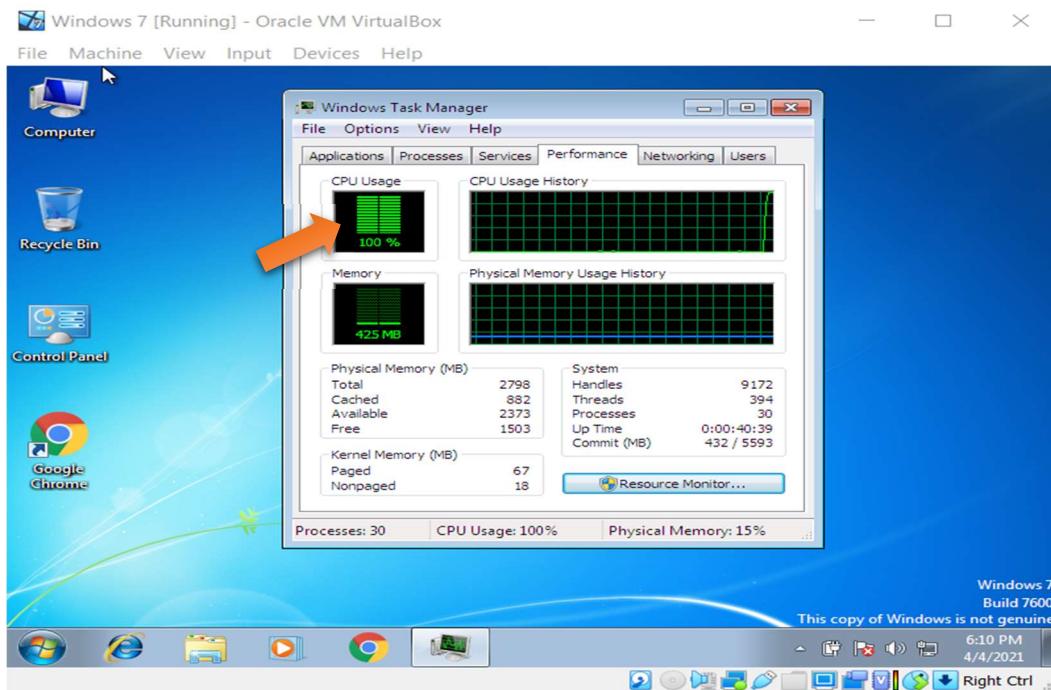
Step 6:- DOS attack on windows 7 virtual machine of Victim System is Ready.



Step 7:- Click on Imma Chargin Mahlazar to start attack on Victim System.



Step 8:- After Attack Requested is sending continuously.

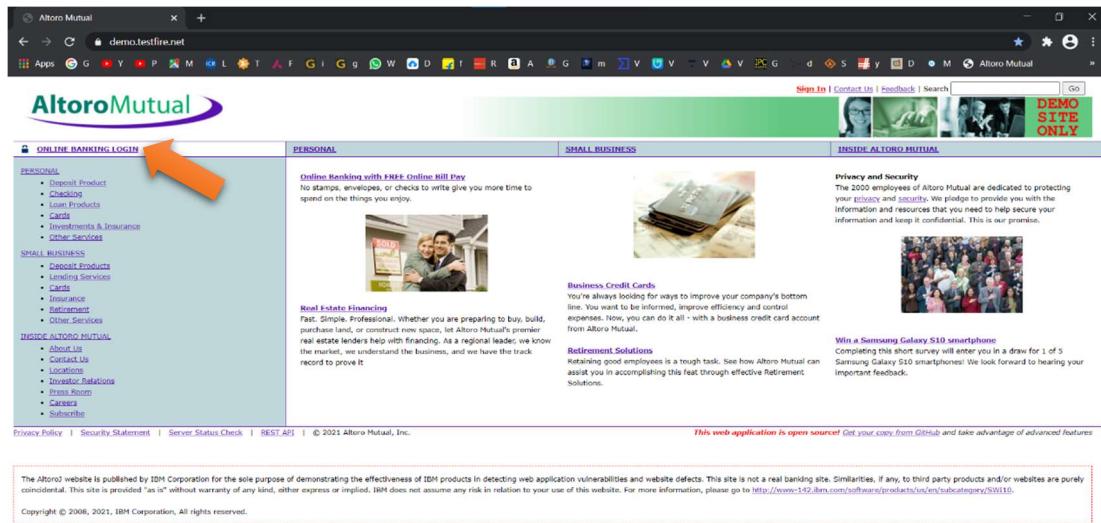


Step 9:- Victim System Cpu is 100% Full. & System Working Slowly.

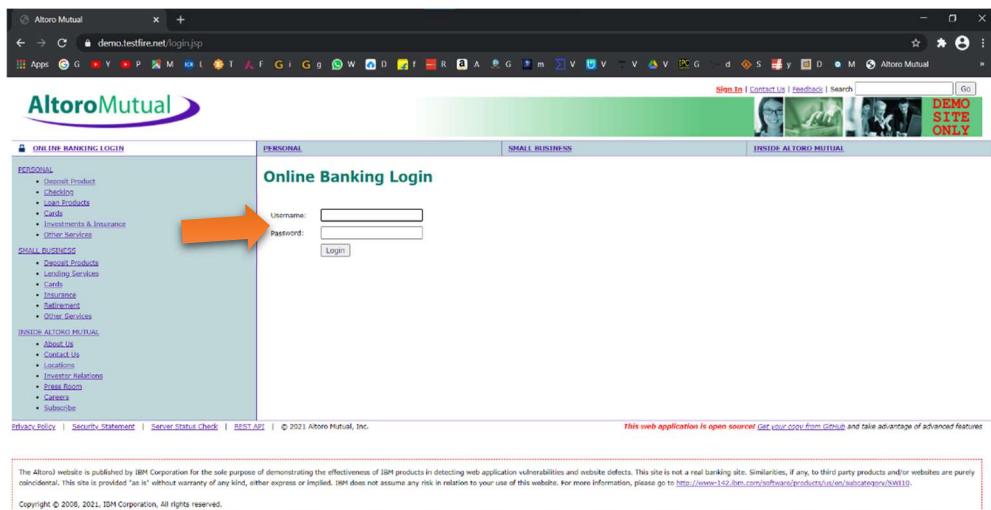
- Test the website using BlindSQL to Bypass Admin panel Authentication manually for <https://demo.testfire.net/> website.

BlindSQL On Website:-

Step 1:- Click on <https://demo.testfire.net/> website.



Step 2:- Click ONLINE BANKING LOGIN.



Step 3:- Click on Username & Password.

This web application is open source! Get your copy from [GitHub](#) and take advantage of advanced features.

Copyright © 2008, 2021, IBM Corporation. All rights reserved.

Step 4:- Click on Username & Type admin.

This web application is open source! Get your copy from [GitHub](#) and take advantage of advanced features.

Copyright © 2008, 2021, IBM Corporation. All rights reserved.

Step 5:- Click on Password & Type admin.

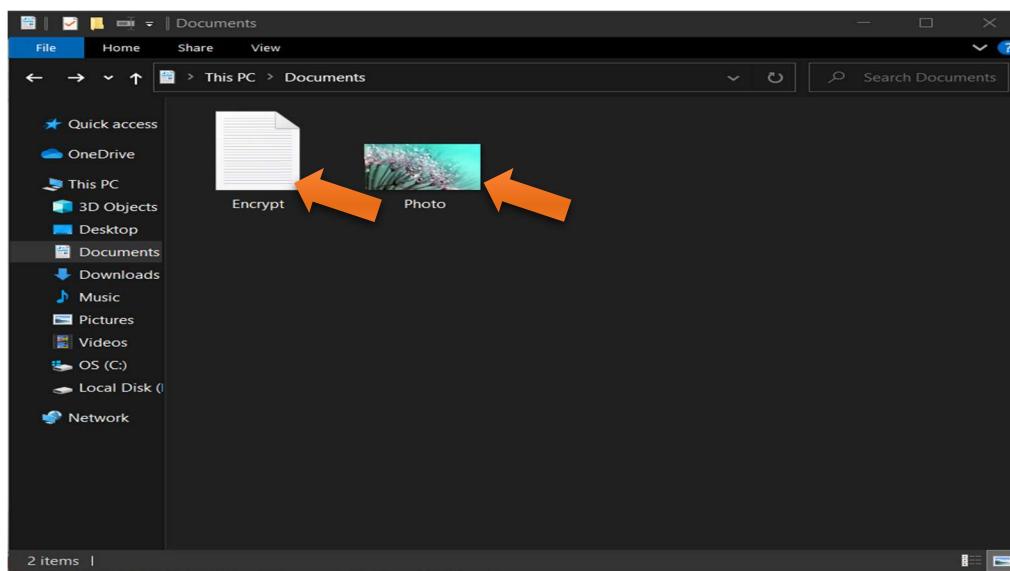
Step 6:- Click on Login.

Step 7:- Login Sucuess.

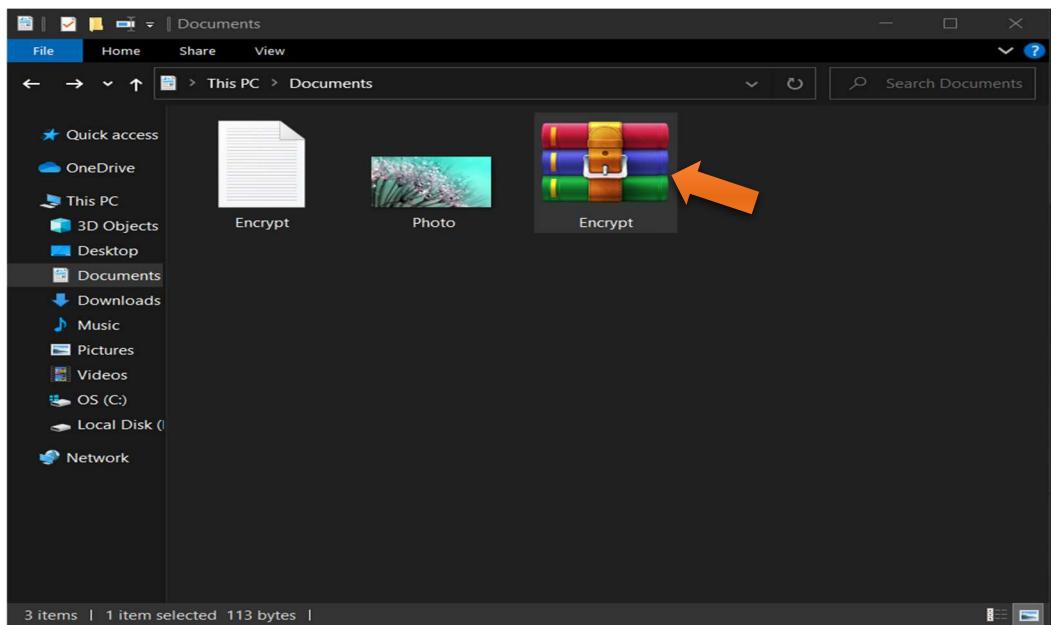
5. Data Encryption, Decryption, and Hiding of Secret Messages.

- Hide the secret text file in the image using command prompts and SNOW tool.

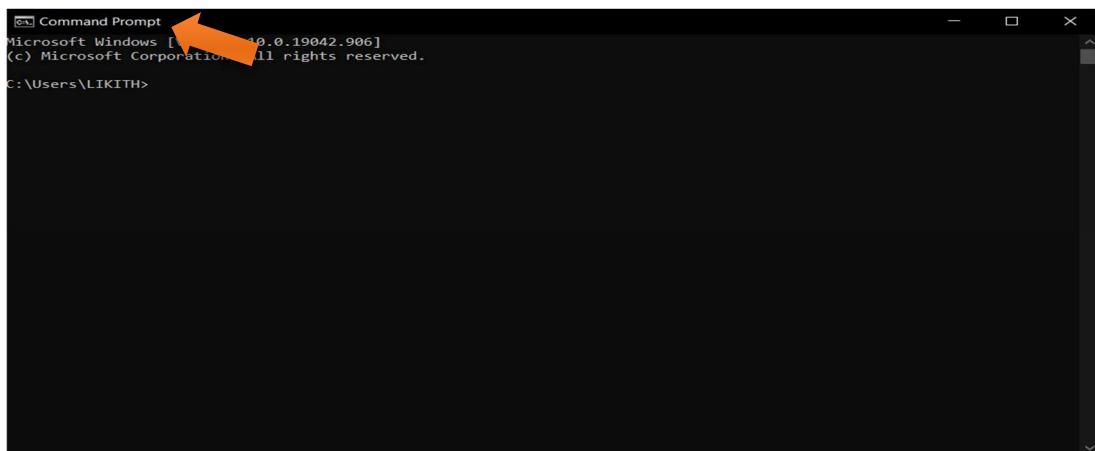
Secret text file:-



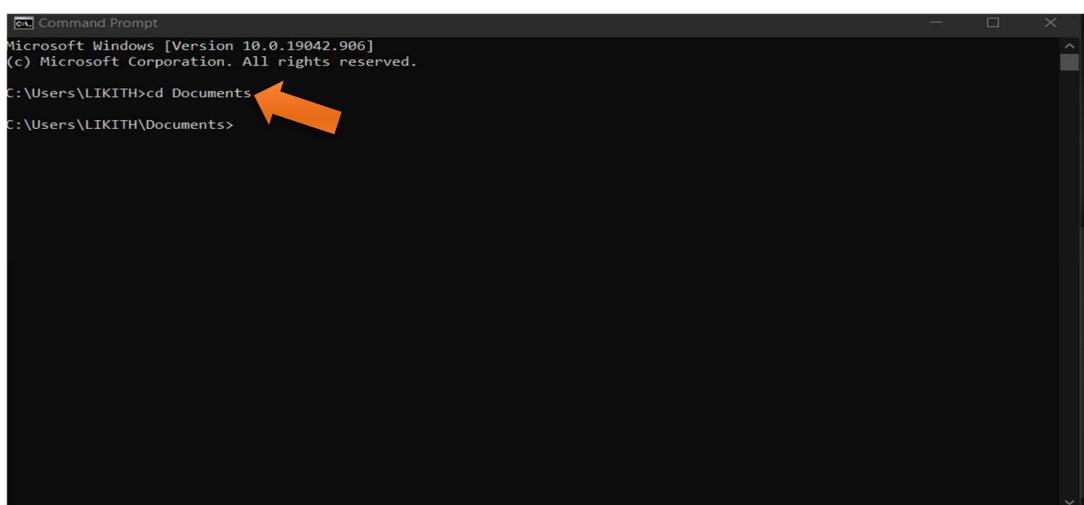
Step 1:- Take One image & One text file it consist of secret data.



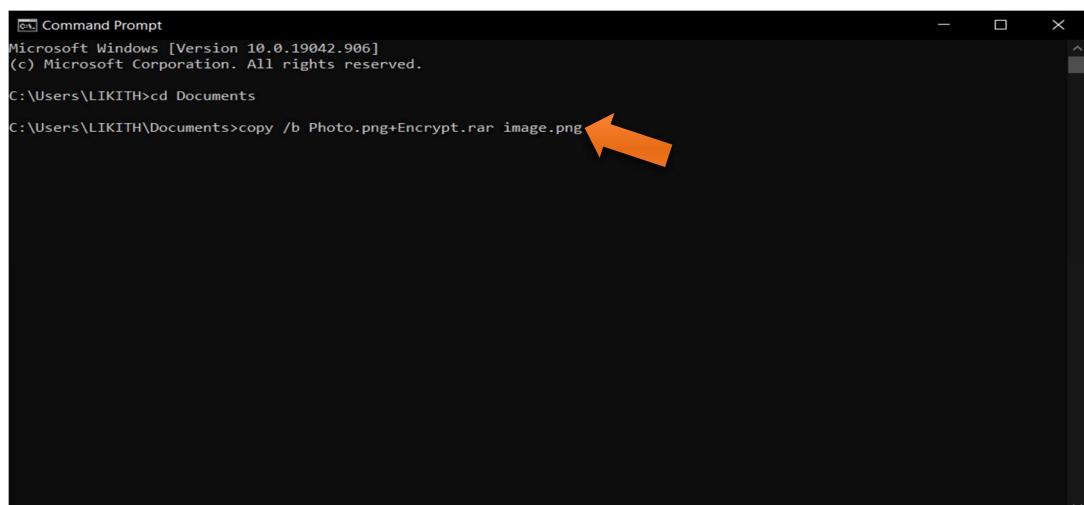
Step 2:- Convert text file into WinRAR formate.



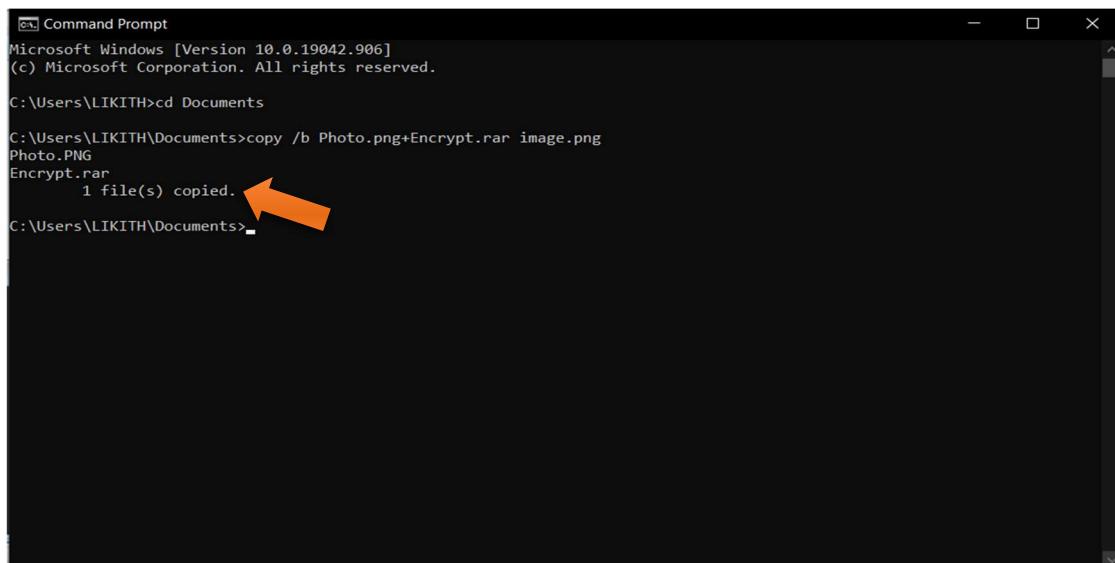
Step 3:- Open command prompts.



Step 4:- Type cd Documents & press enter



Step 5:- Type copy /b photo.png+Encrypt.rar image.png & press enter.



```
Command Prompt
Microsoft Windows [Version 10.0.19042.906]
(c) Microsoft Corporation. All rights reserved.

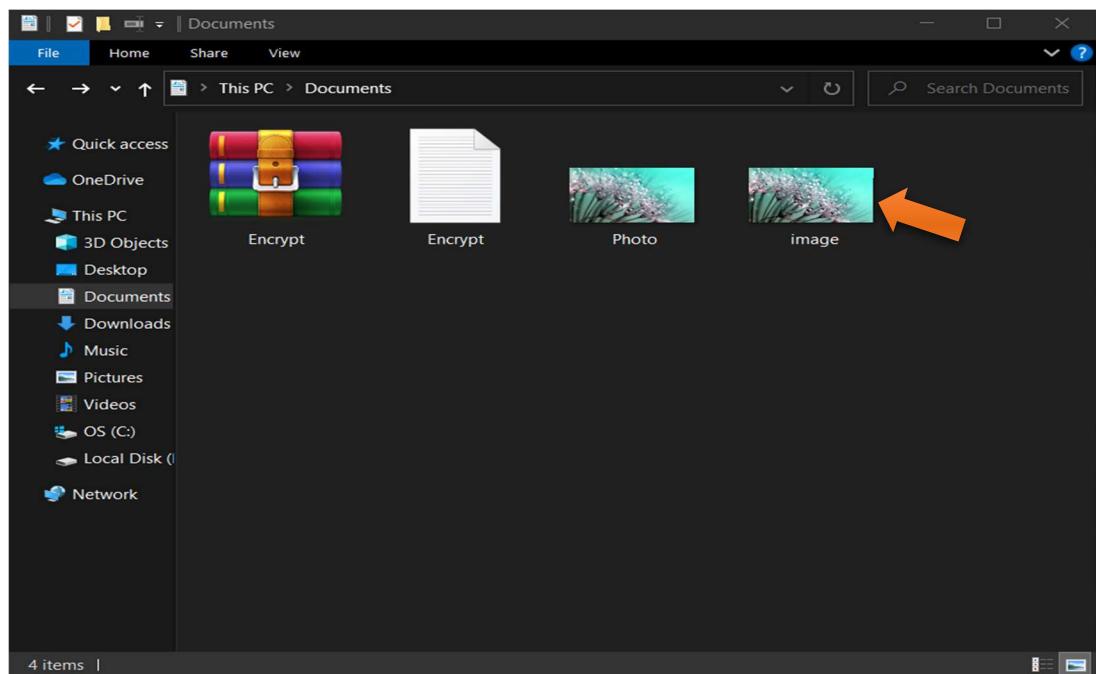
C:\Users\LIKITH>cd Documents

C:\Users\LIKITH\Documents>copy /b Photo.png+Encrypt.rar image.png
Photo.PNG
Encrypt.rar
      1 file(s) copied.

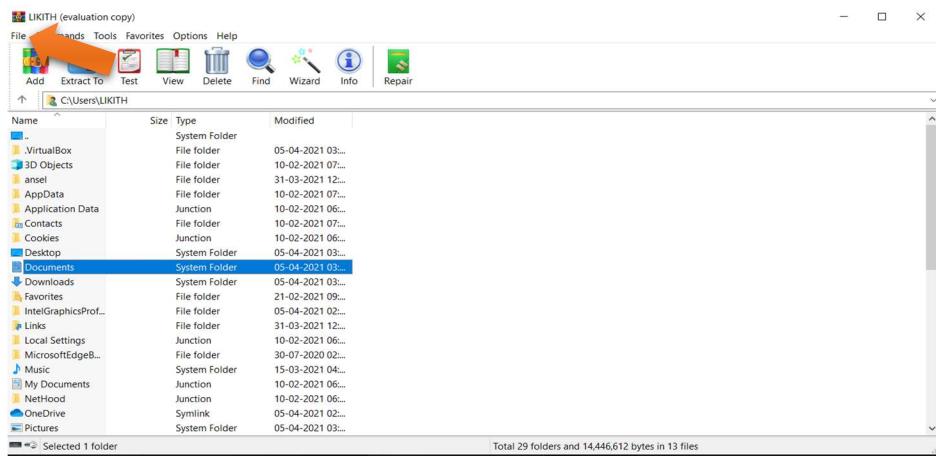
C:\Users\LIKITH\Documents>
```

The screenshot shows a Windows Command Prompt window. The user has navigated to the 'Documents' folder. They have run the command 'copy /b Photo.png+Encrypt.rar image.png'. The output shows that one file was copied. An orange arrow points to the message '1 file(s) copied.'.

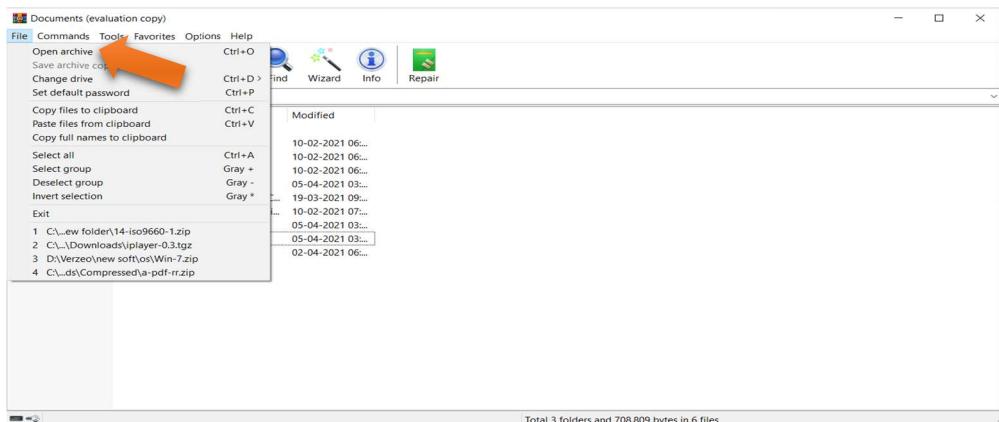
Step 6:- Photo.png & Encrypt.rar Are Binded & Output is image.png



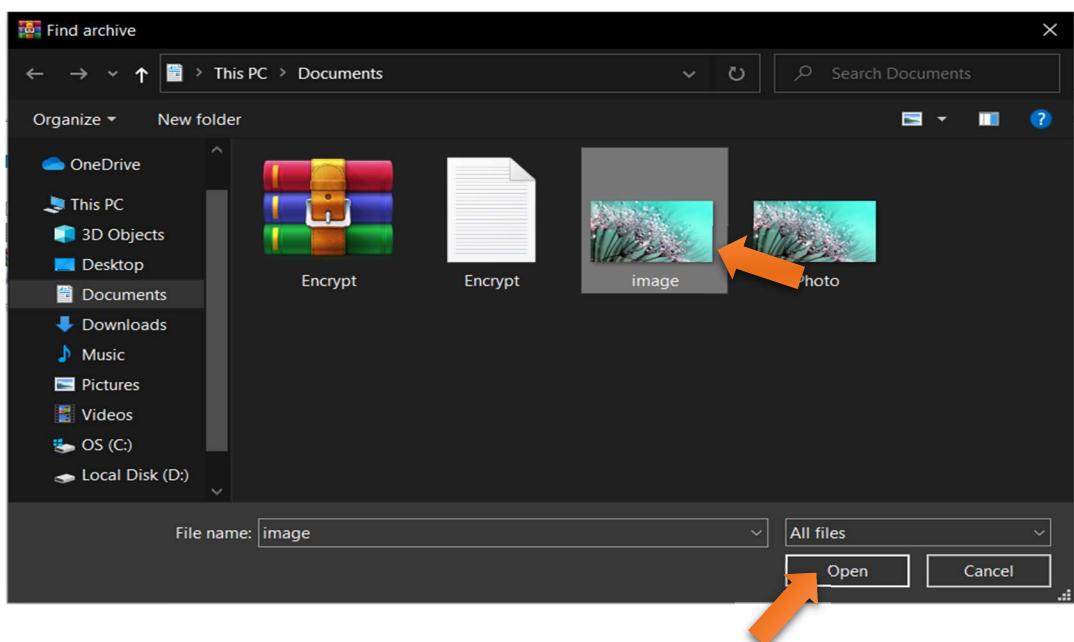
Step 7:- Photo.png & Encrypt.rar Are Binded & Output is image.png



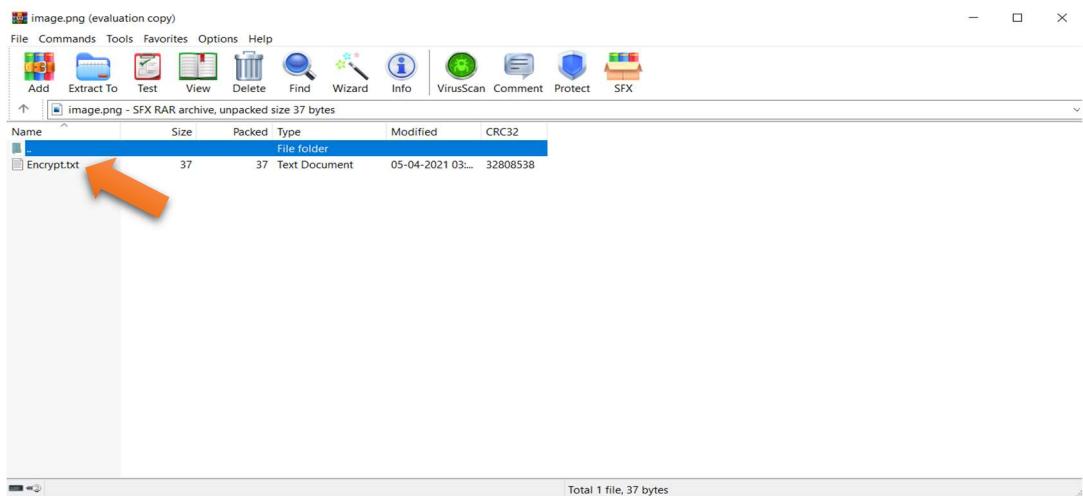
Step 8:- Open WinRAR & Click on File.



Step 9:- Click on Open archive.



Step 10:- Click on image & Click On Open.



Step 11:- This is Encrypt File in the image.