```
                                 6  import pyt2
                                 7  import io, base64
                                 8
                                 9  class AdmissionExtensionOnlineController(http.Contro
                                10
                                11      @http.route('/get/type_wise_program', website=True, auth='none',
                                12      def type_wise_program(self, **kwargs):
                                13          if len(kwargs['types'])<=0:
                                14              return "None"
                                15
                                16
                                17          types = kwargs['types']
                                18          program_list = []
                                19          domain = []
                                20
                                21
                                22          if types == 'local_bachelor_program_hsc':
                                23              domain = [('course_id.is_local_bachelor_program_hsc','=',
                                24          elif types == 'local_bachelor_program_a_level':
                                25              domain = [('course_id.is_local_bachelor_program_a_level':
                                26          elif types == 'local_bachelor_program_diploma':
                                27              domain = [('course_id.is_local_bachelor_program_diploma':
                                28          elif types == 'local_masters_program_bachelor':
                                29              domain = [('course_id.is_local_masters_program_bachelor':
                                30          elif types == 'international_bachelor_program':
                                31              domain = [('course_id.is_international_bachelor_program':
                                32          elif types == 'international_masters_program_bachelor
                                33              domain = [('course_id.is_international_masters_program_bachelor
```
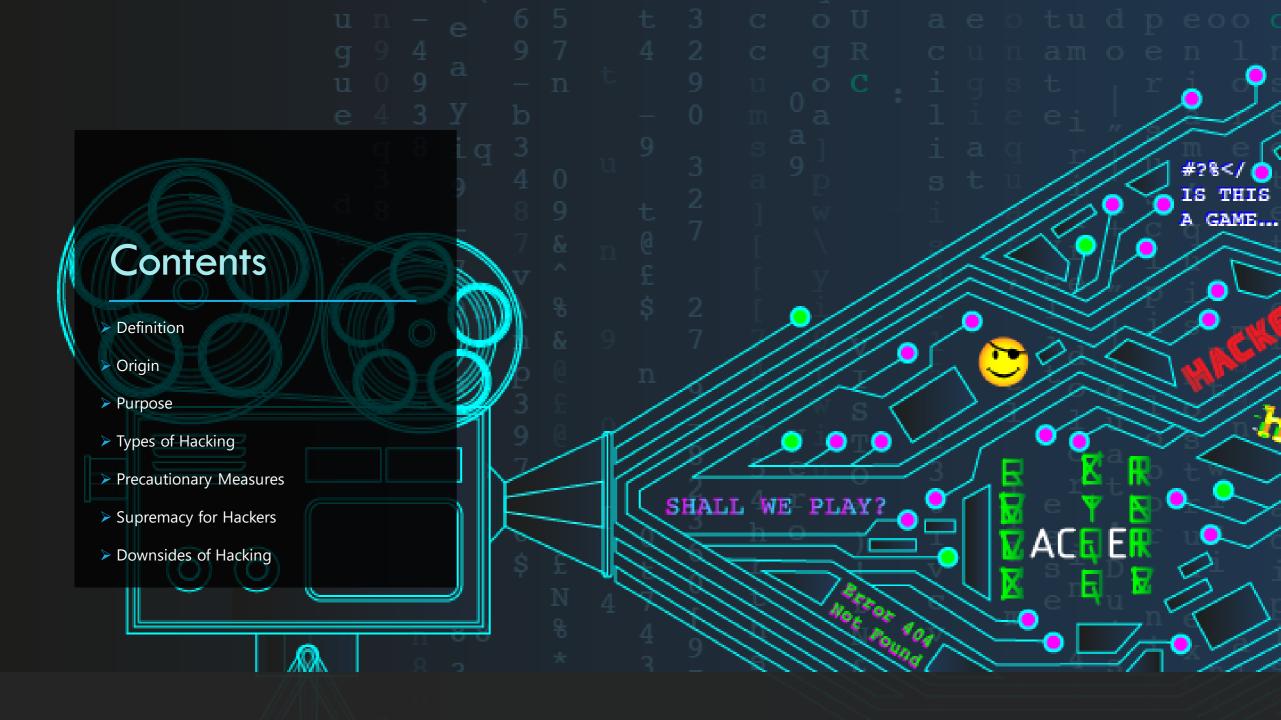
Hacking

AS A FIELD

Presented by;

- M_63 - Muhammad Ammar

- M_65 - Shaban Zaman

- M_84 - Harris Bin Abid

- M_86 - Noman Shoaib

Contents

#?%</

IS THIS
A GAME...

SHALL WE PLAY?
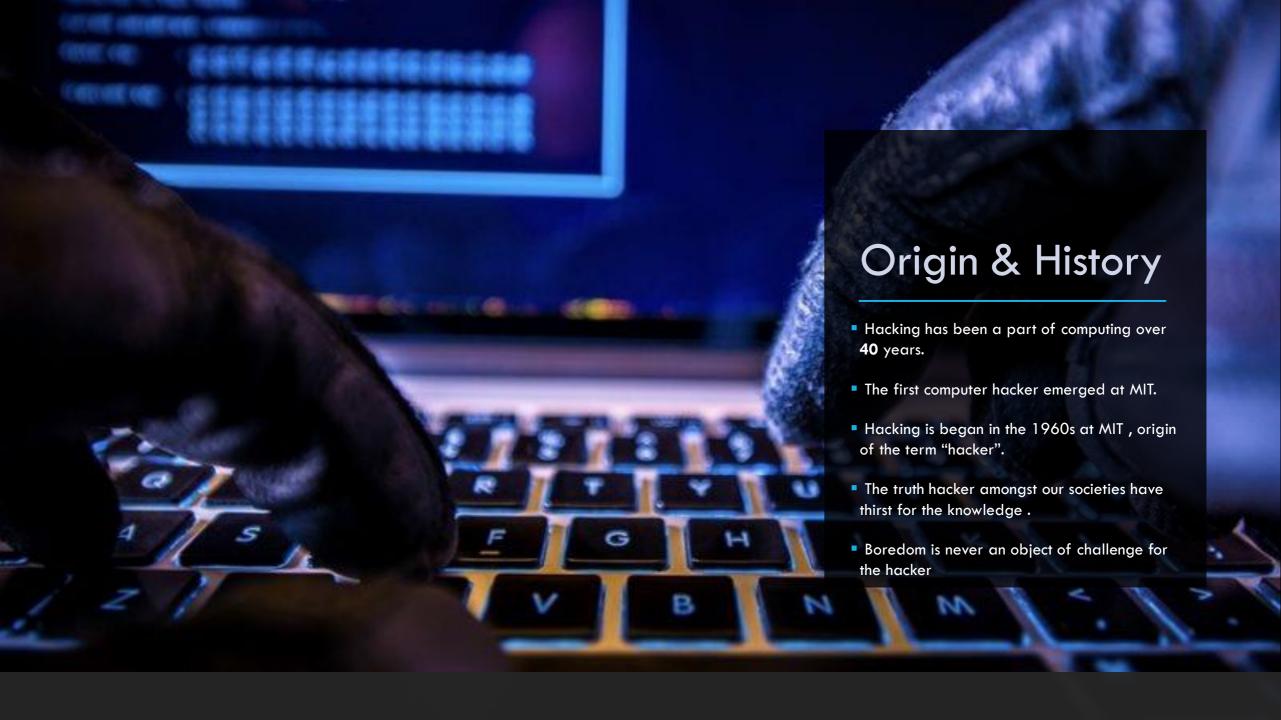
Error 404
Not Found

Old Definition

❖ Before the 21st Century, an experienced **Genius Programmer,** having Extra-Ordinary Problem Solving skills and capable of finding bugs which other Programmers couldn't find used to be known as a Hacker.
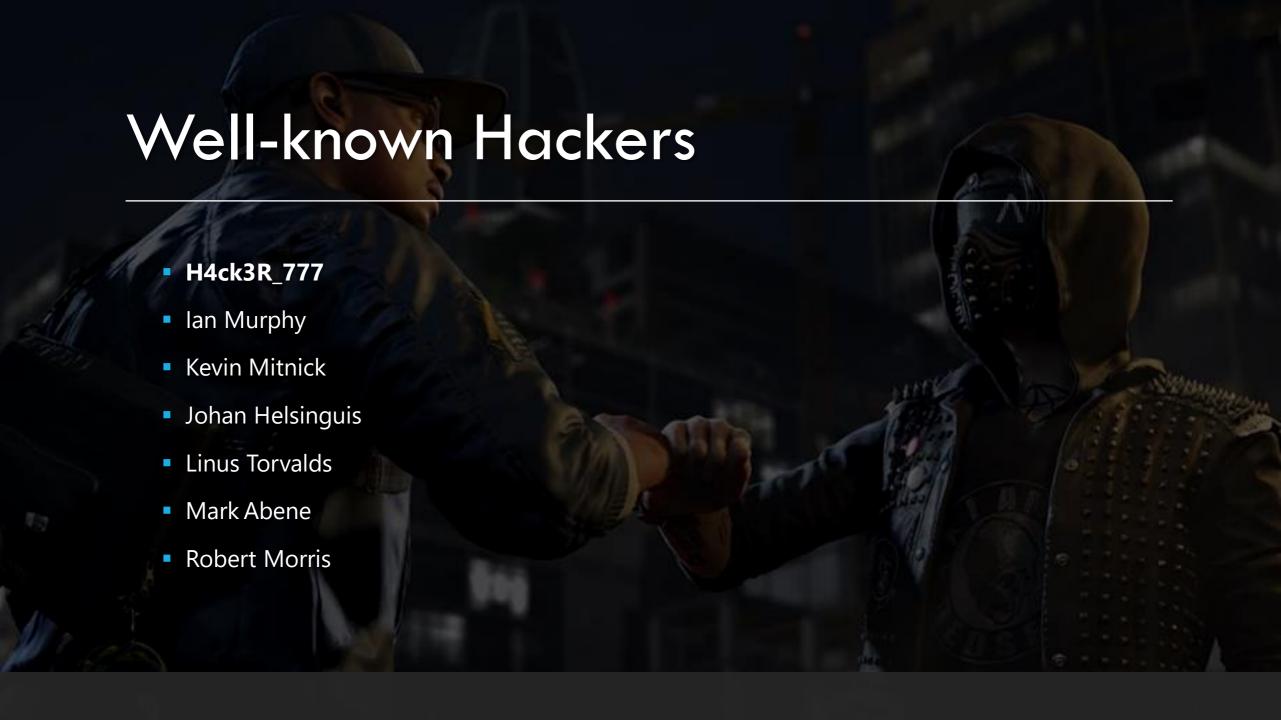
Modern Definition

❖ According to the modern Definitions of Hacker, **_Hacking_** is an attempt to exploit a computer system or a private network inside a computer, and the person who does so, is known as **Hacker.**

❖ Hacking is the unauthorized access to or control over computer network security systems for some illicit purpose.

Origin & History

- Hacking has been a part of computing over **40** years.

- The first computer hacker emerged at MIT.

- Hacking is began in the 1960s at MIT , origin of the term "hacker".

- The truth hacker amongst our societies have thirst for the knowledge .

- Boredom is never an object of challenge for the hacker

Well-known Hackers

- **H4ck3R_777**
- Ian Murphy
- Kevin Mitnick
- Johan Helsinguis
- Linus Torvalds
- Mark Abene
- Robert Morris

Ethical Purposes

❖ Problem Solving

❖ Mental Exercise

❖ Harvesting Information across the Web

❖ Patching Software inconsistences

❖ Security Purpose

❖ Finding vulnerabilities in systems of organizations

❖ Spreading the awareness of threats

Unethical Purposes

❖ Gaining access to organizational systems secretly and unethically

❖ Steal confidential information from Websites, or Databases

❖ Installing Backdoors in Systems

❖ Creating Botnets for **DDOS** Attacks

❖ Destroy enemies' Databases, Websites and Networks during the Cyber War

Types of Hackers

Ethical Hacker (White hat): Passionate, and Security hackers who gains access to systems with a view to fix the identified weaknesses. They may also perform Penetration testing and Vulnerability assessments.

Cracker (Black hat): A hacker who gains unauthorized access to computer systems for personal gain. The intent is usually to steal corporate data, violate privacy rights, transfer funds from bank accounts etc.

Grey hat: A hacker who is in between ethical and black hat hackers. He/she breaks into computer systems without authority with a view to identify weaknesses and reveal them to the system owner.

Script kiddies: A non-skilled person who gains access to computer systems using already made tools.

Hacktivist: A hacker who use hacking to send social, religious, and political, etc. messages. This is usually done by hijacking websites and leaving the message on the hijacked website.

Phreaker: A hacker who identifies and exploits weaknesses in telephones instead of computers.

Fields of Hacking

- ❖ **Website** Hacking
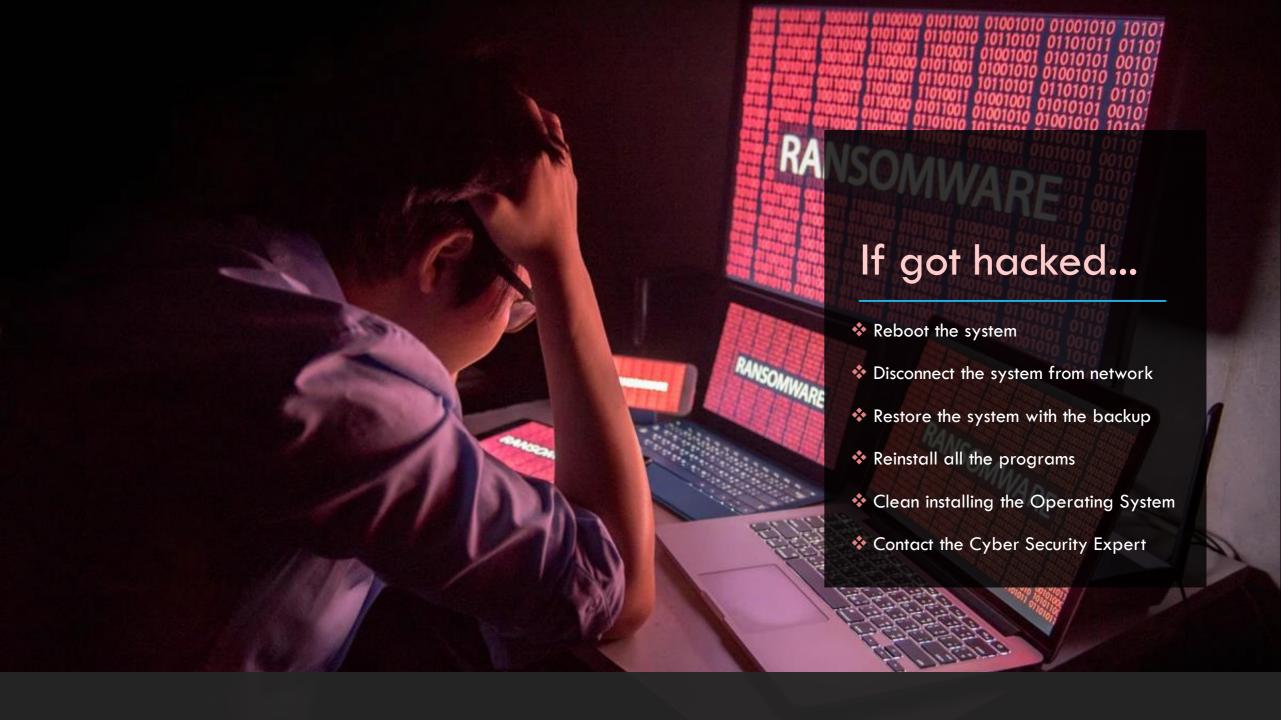- ❖ **Network** Hacking
- ❖ **Ethical** Hacking
- ❖ **Email** Hacking
- ❖ **Password** Hacking
- ❖ **Online Banking** Hacking
- ❖ **Computer** Hacking

Precautionary Measures

- ❖ Avoiding being hacked
  - ❖ Keep Antivirus active and up-to-date
  - ❖ Avoid reusing passwords
  - ❖ Get media via authorized sources
  - ❖ Prefer using another user instead of Admin or Root
  - ❖ Keep system offline when idle
  - ❖ Encrypt your Data

If got hacked...

- ❖ Reboot the system
- ❖ Disconnect the system from network
- ❖ Restore the system with the backup
- ❖ Reinstall all the programs
- ❖ Clean installing the Operating System
- ❖ Contact the Cyber Security Expert

Supremacy for Hackers

➢ Retrieval of Lost or Accidentally Encrypted Data and Information

➢ Defense against malicious attacks and spread awareness about it

➢ Teaches us that no technology is 100% secure.

➢ Testing the Security level of the Network

➢ Warning the Organizations about any Security Vulnerability

Downsides of Hacking

➤ Criminals use it to their advantage

➤ Data breaches and leaks

➤ Intruders invade people's privacies

➤ Denial of Service (DOS) attacks

➤ Millions of Stolen Accounts and Hacked Debit Card information is sold in auctions

Final words

➢ Hacking is mostly misunderstood as **Black-Hat** hacking

➢ Use of the Technology makes it Good or Bad

➢ Always use trusted sources for Media viewing and Downloads

➢ Keep your accounts safe