Tutorial Session - 8

- 1. What is the difference between a backdoor, a bot, a keylogger, spyware, and a rootkit? Can they all be present in the same malware?
- 2. Give practical examples for each of the following:
 - i. Backdoor
 - ii. Bot
 - iii. Keylogger
 - iv. Phishing
 - v. Spear Phishing
 - vi. Worm
- 3. List three places malware mitigation mechanisms may be located.
- 4. Briefly describe the four generations of anti-virus software.
- 5. The following code fragments show a sequence of virus instructions and a metamorphic version of the virus. Describe the effect produced by the metamorphic code.

Original Code	Metamorphic Code
mov eax, 5	mov eax, 5
add eax, ebx	push ecx
call [eax]	pop ecx
	add eax, ebx
	swap eax, ebx
	swap ebx, eax
	call [eax]
	nop

6. Consider the following fragment:

```
legitimate code
if data is Friday the 13th;
     crash_computer();
legitimate code
```

What type of malware is this?

Logic bomb

7. Consider the following fragment in an authentication program:

```
username = read_username();
password = read_password();
if username is "133t h4ck0r"
    return ALLOW_LOGIN;
if username and password are valid
    return ALLOW_LOGIN
else return DENY LOGIN
```

What type of malicious software is this?