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| Ex.No.2 | **Perform password extraction, cracking and recovery from target system** |

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| **AIM:** |

* To use open source software tools for extraction, cracking and recovery from target system.
* To implement Dictionary attack in Java/Python

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| **THEORY:** |

**Tool Selected: John The Ripper**

**About the Tool: John is also a dictionary-based tool. This means that it works with a dictionary of common passwords to compare it with the hash in hand.** **John the Ripper is fast and replete with many key features. JTR combines several cracking modes in one program and is fully configurable.**

**Software Requirements:**

**Dictionary attack:**

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| **Demonstrations (With Screen shots)** |

**Installation Procedure / Execution**

**Password cracking (Dictionary attack)**

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| **Algorithm for Dictionary Attack** |

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| **Coding** |

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| **Output** |

**Key takeaway from the installation and execution of password recovery tool:**

**1.**

**2.**

**3.**

**Dictionary Attack – Screen shots**

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| **RESULT:** |

**The password cracking tool has been installed and password recovery has been done.**

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| **Evaluation** |

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| Parameter | Max Marks | Marks Obtained |
| Uniqueness of the Tool (Installation and Exploration of Functionalities) | 20 |  |
| Uniqueness of Code for Dictionary Attack | 15 |  |
| Completion of experiment on time | 5 |  |
| Documentation | 10 |  |
| Total | 50 |  |
| Signature of the faculty with Date |  |  |