**INDEX (Section IV)**

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| **Sr. No.** | **Date** | **Topic** | **Page No.** | **Signature** |
| **1** |  | **Write a program to create a robot**  **(i) With gear**  **(ii) Without gear**  **and move it forward, left, right** |  |  |
| **2** |  | **Write a program to create a robot with a two motor and move it forward, left, right** |  |  |
| **3** |  | **Write a program to do a square using a while loop, doing steps with a for loop, to change directions based on condition, controlling motor speed using switch case.** |  |  |
| **4** |  | **Write a program to create a robot with light sensors to follow a line.** |  |  |
| **5** |  | **Write a program to create a robot that does a circle using 2 motors.** |  |  |
| **6** |  | **Write a program to create a path following robot .** |  |  |
| **7** |  | **Write a program to register obstacles.** |  |  |
| **8** |  | **Write a program to implement Breadth First Search (BFS) algorithm for a given standard problem.** |  |  |
| **9** |  | **Write a program to implement Hill Climbing algorithm for a given standard problem.** |  |  |
| **10** |  | **Write a program to implement A\* search algorithm for a given standard problem.** |  |  |