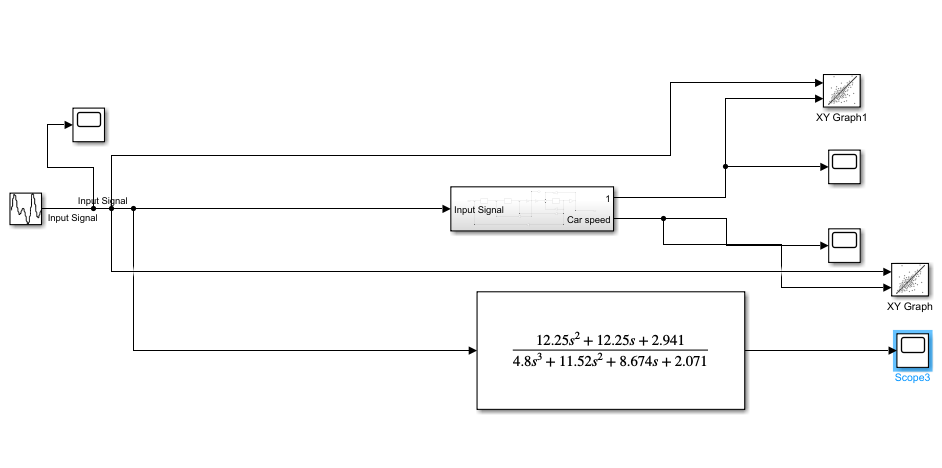
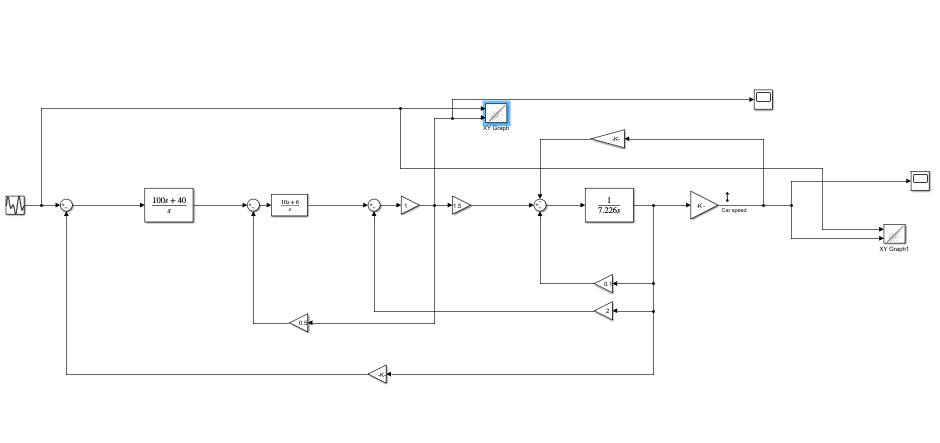
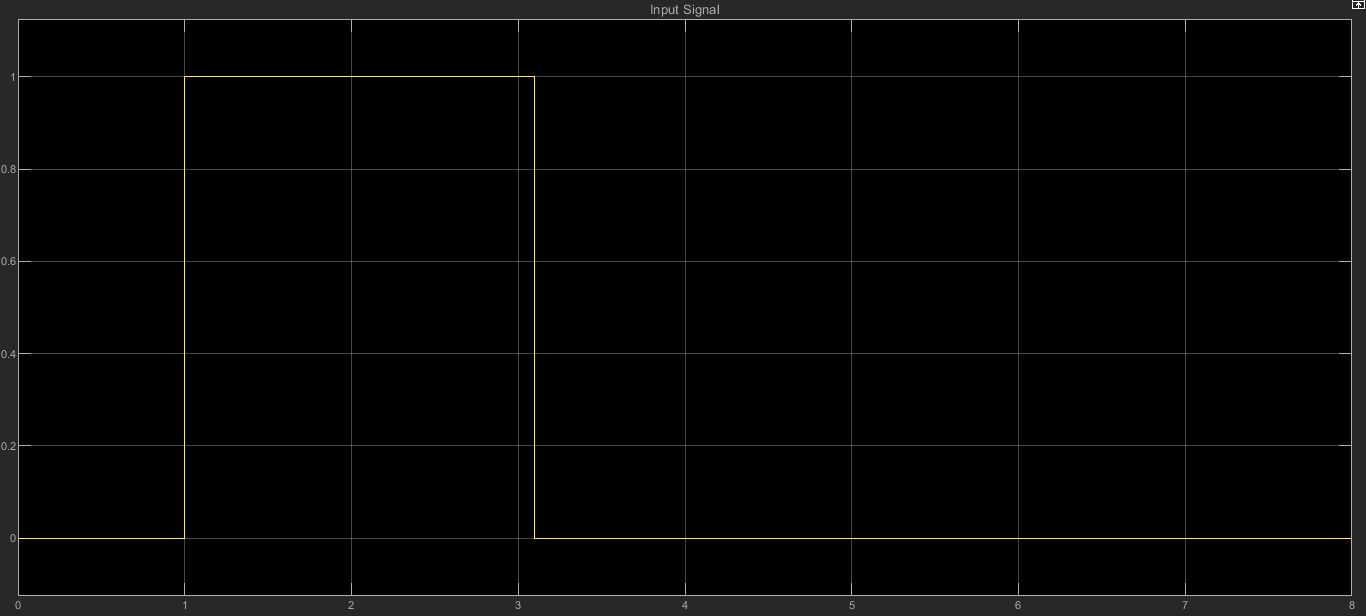
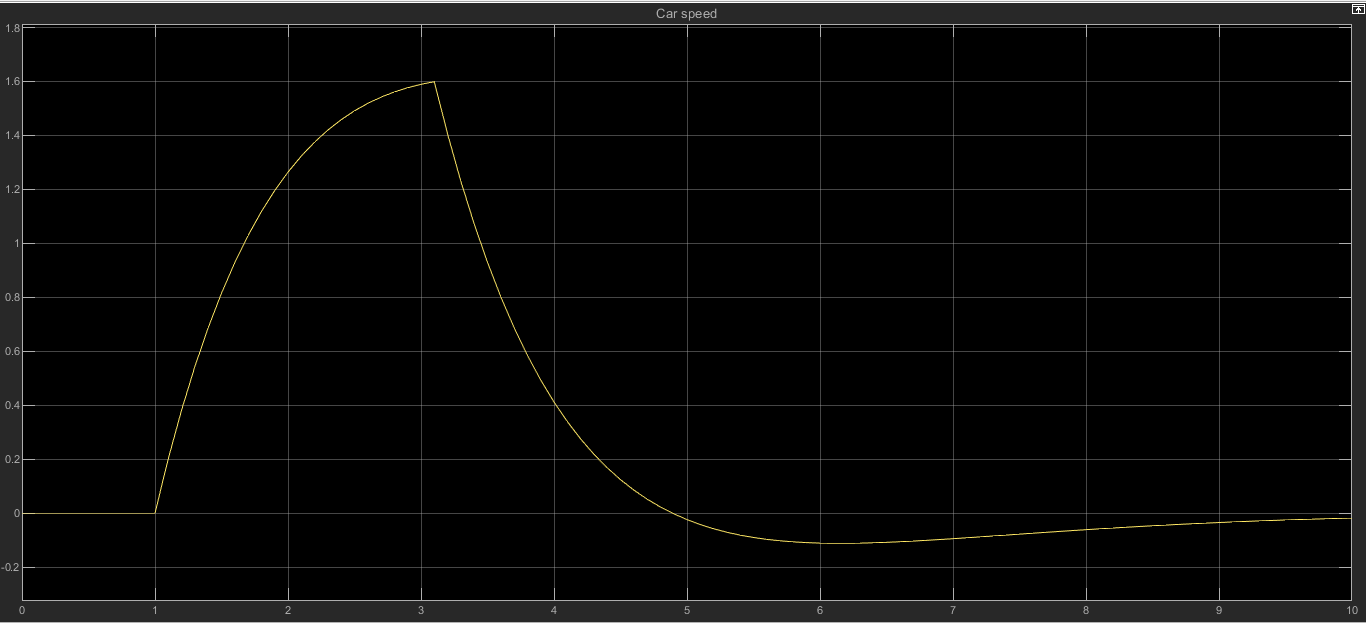
**Control system**

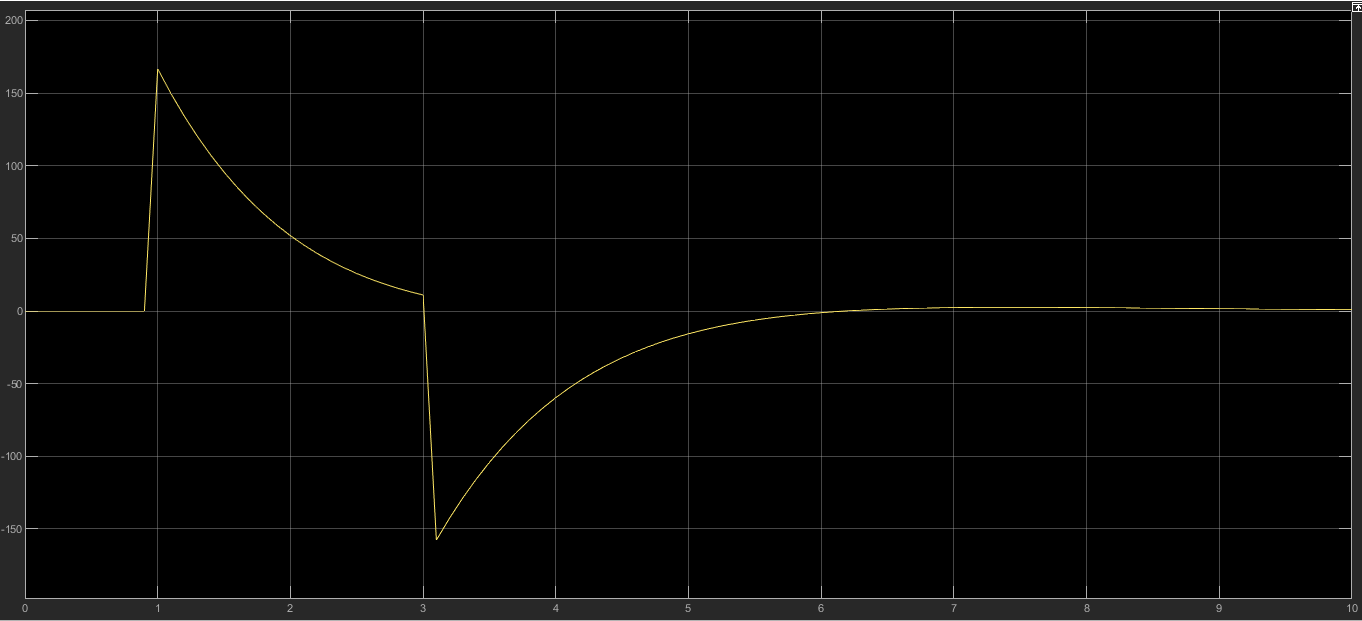
**Lab1**

|  |  |
| --- | --- |
| Name | Nada Tarek Mowafi |
| ID | 20012094 |
| Sec | 4 |

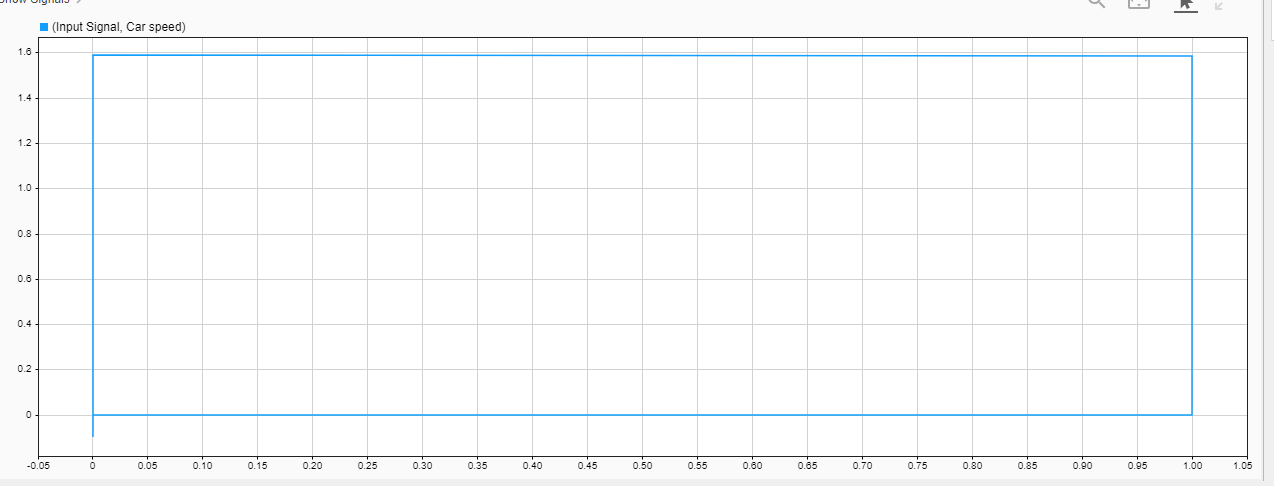
* **Part 1:Simulink:**
* **Develop a Simulink modle for the original system:**
* **Inside subsystem:**
* **Input signal:**
* **Pulse(1,1,2):**
* **Output scope(current):**

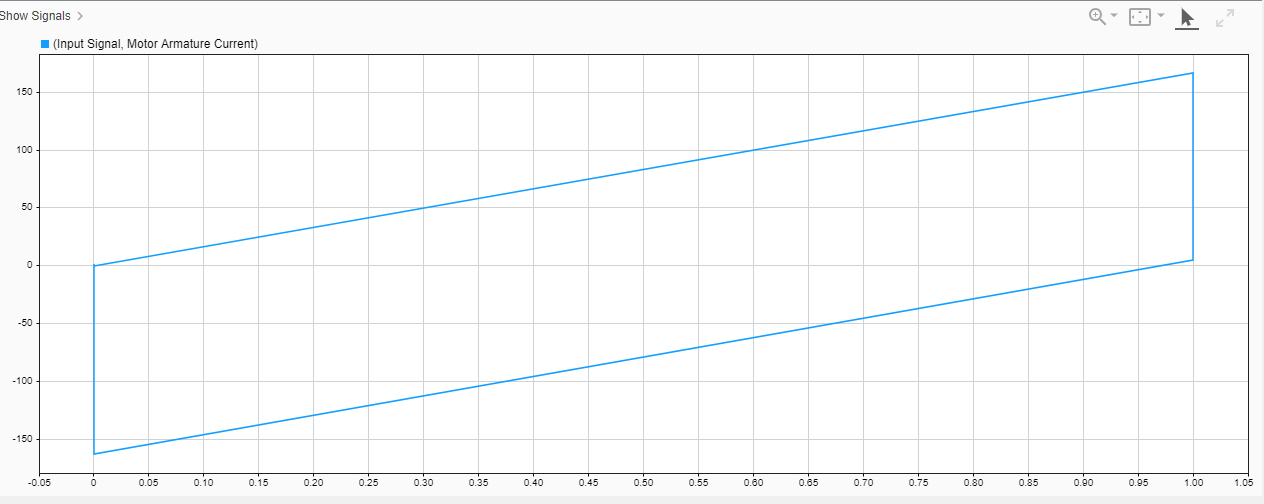
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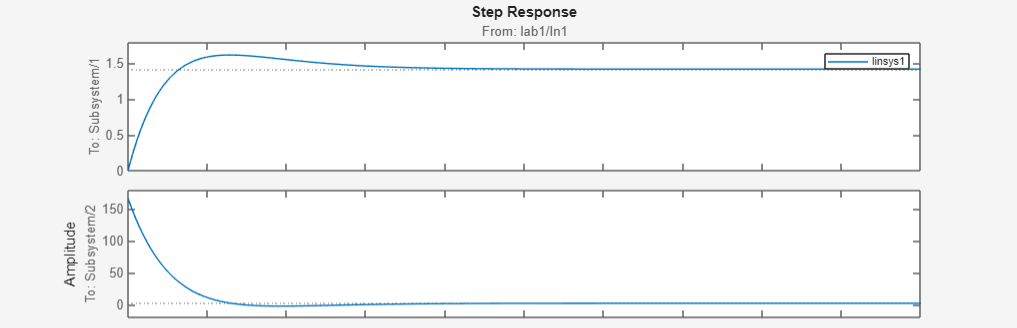
* **Output scope(armature):**

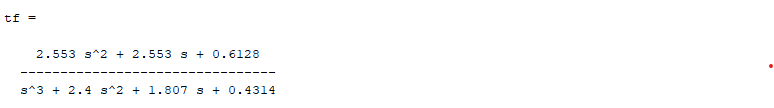


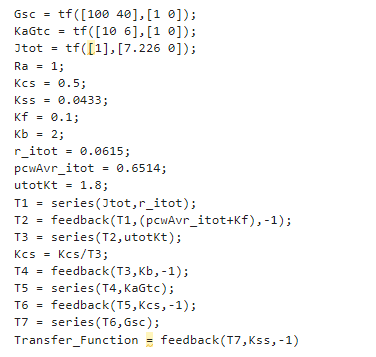
* **Xy graph:**
* **The xy graph (current):**

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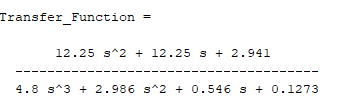
* **The xy graph (armature):**
* **Step response of the car speed and Step response of the motor armature current (A):**

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* **The transfer function using Simulink:**
* **Part2: MaTlab:**



* **The equivalent transfer function :**

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