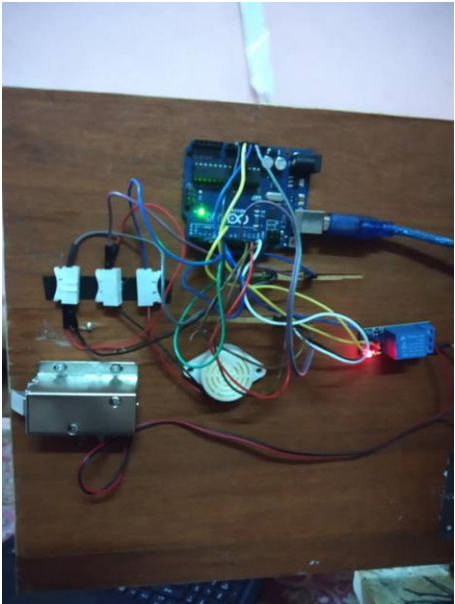


BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT INFORMATION																
Program <i>Program</i>	DIPLOMA KEJURUTERAAN ELEKTRONIK (DEP)																
Jabatan <i>Department</i>	JKE																
Semester/ Tahun <i>Semester/ Year</i>	5																
Tajuk Projek <i>Project Title</i>	SECURITY BOX USING RFID																
Jenis Projek <i>Type of Project</i>																	
Kategori Kluster Penyelidikan <i>Category/ research Cluster</i>	<p>Tanda “ / ” pada yang berkenaan: Please tick “ / ” where applicable:</p> <table border="1"> <tbody> <tr><td><input type="checkbox"/></td><td>Sains tulen (<i>Pure Science</i>)</td></tr> <tr><td><input type="checkbox"/></td><td>Sains gunaan (<i>Applied Science</i>)</td></tr> <tr><td><input type="checkbox"/></td><td>Teknologi dan kejuruteraan (<i>Technology and Engineering</i>)</td></tr> <tr><td><input type="checkbox"/></td><td>Sains kesihatan dan klinikal (<i>Clinical and Health Sciences</i>)</td></tr> <tr><td><input type="checkbox"/></td><td>Sains sosial (<i>Social Sciences</i>)</td></tr> <tr><td><input type="checkbox"/></td><td>Sastera dan sastera iktisas (<i>Arts and Applied Arts</i>)</td></tr> <tr><td><input type="checkbox"/></td><td>Warisan alam dan budaya (<i>Natural Sciences and National Heritage</i>)</td></tr> <tr><td><input type="checkbox"/></td><td>Teknologi maklumat dan komunikasi (<i>Information and Communication Technology</i>)</td></tr> </tbody> </table>	<input type="checkbox"/>	Sains tulen (<i>Pure Science</i>)	<input type="checkbox"/>	Sains gunaan (<i>Applied Science</i>)	<input type="checkbox"/>	Teknologi dan kejuruteraan (<i>Technology and Engineering</i>)	<input type="checkbox"/>	Sains kesihatan dan klinikal (<i>Clinical and Health Sciences</i>)	<input type="checkbox"/>	Sains sosial (<i>Social Sciences</i>)	<input type="checkbox"/>	Sastera dan sastera iktisas (<i>Arts and Applied Arts</i>)	<input type="checkbox"/>	Warisan alam dan budaya (<i>Natural Sciences and National Heritage</i>)	<input type="checkbox"/>	Teknologi maklumat dan komunikasi (<i>Information and Communication Technology</i>)
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Ahli Kumpulan <i>Group member</i>	1. Name: Muhammad Amirul Akmal Bin Hamdan No. Identification card: 14DEP16F1081 2. Name: Muhammad Faiz Bin Mohammad Bahrin No. Identification card: 14DEP16F1043 3. Name: No. Identification card:																
Penyelia <i>Supervisor</i>	Name: Puan Lian Ai Chen No. Identification card:																
Penyelia Bersama <i>Co-Supervisor</i>	1. Name: No. Identification card:																
Abstrak <i>Abstract</i>	<p>A study has been developed that is the security gateway using RFID and security cameras in every shophouses for security and fulfilling the final year project, Diploma in Electrical Engineering of Merlimau Political Communication. The study was built to ensure the safety of shophouses from being infringed. the need for home shoppers where they need security after they are away from home. This is in line with the rapidly growing technology and infrastructure development today. In short, this system has successfully helped to handle widening home loading cases. User must have RFID tag which contains the ID of RFID of that particular user. The RFID Reader detects tag in real-time and open door automatically and closes it again after a specific time interval. In this matter, user authentication information is searched on the coding first. If the ID of RFID Card does not include inside the coding, the door will not be open thus unauthorized entries.</p>																

Keyword <i>Keyword</i> (max 5 word)	RFID, Relay Module, Arduino Uno
Objektif Projek <i>Project Objectives</i>	<ul style="list-style-type: none"> - Use a RFID sensor to authorized to owner of the shop house. - Use solenoid and RFID to close the security box door without having to be locked using lock.
Skop Projek <i>Project scope</i>	Residential House
IP No	nil
Dapatan <i>Finding</i> (500 words max)	<p>Finding the relevant information has been surprisingly difficult, which would be a severe problem for a prospective customer evaluating what is on the market. It has been easier to find information about building kits than a complete locking system. It is hard to find information in the standard because it must be paid before you can see it, which is both expensive and time consuming. Also you do not know if it contains the right type of information. It has been very difficult finding information regarding security in door locks that use active RFID. On the other hand plenty of information is available for systems using RFID tags because tags are very cheap and their use is increasing dramatically. Typing the keyword “immobilizer” in combination with other words in a search engine gave much better hits than using the word “RFID door locks” with other keywords, which means that more secure products are found mostly in the car industry.</p>
Cadangan untuk kerja-kerja akan datang <i>Suggestion for future work</i> (500words)	<p>The following improvements are regarded as necessary to achieve a reasonable level of security for RFID-based locks :</p> <ul style="list-style-type: none"> • Make electricity as the main source of power to the locks and use battery as a backup for sudden loss of electricity to increase availability. <p>Use TFT LCD 1.8 Inch and camera to record the intruder when access denied</p>

<p>Gambar berkaitan projek</p> <p><i>Picture related to project (700kb)</i></p>	 <p><i>Figure 1</i></p>	<p><i>Figure 2</i></p>
Rating/Level	<p>Jabatan/ Politeknik/ Kebangsaan/ Antarabangsa <i>Departments / Institutes / National / International</i></p>	

** Borang ini perlu diisi oleh pelajar dan dihantar kepada penyelia/ penyelaras projek dalam bentuk hardcopy dan softcopy (borang LAMPIRAN J dan gambar hasil projek dalam format jpeg/bitmap) bersama laporan akhir dan hasil projek.*

