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(57) Abstract :
The amount of waste produced each day is rapidly increasing as a result of the ongoing development in urbanization and industrialization. The garbage that is produced every day is being dumped everywhere in landfills. It is possible to effectively utilize and recycle the waste if we implement proper segregation procedures for the generated waste. The implementation of a cost-effective Automated Waste Segregator device for waste segregation at the household level is discussed in this article. The suggested segregator system divides waste into three categories: dry, wet, and metallic waste. It also separates dry waste. The effectiveness of waste segregation in lowering the volume of trash dumped in landfills is investigated in this research. The research will concentrate on the advantages of efficient garbage separation, including lowering the volume of waste disposed of in landfills, preserving resources, and reducing pollution. It will also look at the difficulties that municipalities encounter when putting waste segregation programmes into practice. The primary controller in this case is an Arduino Uno board, and various sensors are used to identify each type of waste, which is then separated and disposed of in the appropriate bins. The waste that has been automatically separated can be sent straight to recycling using this method.

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