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| **Sno.** | **APPLICATION DOMAIN** | **COMPLEX PROBLEM IDENTIFIED** | **JUSTIFICATION** |
| **1.** | LAPTOPS | Modern laptops are coming with powerful processors and GPUs resulting overheat while using them and due to its compact design there is less space for cooling fans because of that performance and lifespan is decreasing | To correct the problem thermal management is crucial to ensure that laptops remains safe while using and ionic cooling engines , heat sink design, cooling pads and optimized software should be build in laptops so that it increases the performance and lifespan of the laptops. |
| **2.** | SMART HOME DEVICES | There will be no privacy and security for the personal data as it can be hacked by the ethical hackers .IOT devices collect sensitive user data which may lead to privacy violation | Smart devices always depend on connectivity and data collection because of this cyberattacks takes place. The key technical and ethical issue for a user is to balance between both convenience and strong privacy measures. |
| **3.** | ELECTRIC VEHCILES | It is very difficult to design a battery which lasts for more years with high durability. The batteries cannot be disposal as it damages environment because EV-Batteries require rare minerals like lithium and cobalt etc. They cannot be recycled as well. | EV-Batteries are the back bone for eco-friendly transportation. But they raise significant ethical and environmental concerns as these contain rare minerals .Recycling or reusing a battery is considered as complex one due to its chemical complexity and improper disposal results in severe environmental damage. |