**PROJECT REPORT ON RALLY**

**GROUP MEMBERS:**

* Megha Mahna (C0749456)
* Harpreet Kaur (C0761984)
  + - * Hardeep Kaur (C0762206)

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**INSTRUCTOR: Mr. Mohammad Kiani**

* **Introduction**

The project is entirely based on rally system to organize the races of cars and motorcycles. It includes eight files (vehicle, sportcar, moto, grandprix, hybrid, electric and protocols) including main file in which, we made classes, protocols, initializers and methods to make it work effectively. This project is in object oriented programming and then modified into protocol oriented programming.

* **Implementation of classes**

In this program, we created Vehicle class as super or parent class as it inherits four subclasses or child classes - Moto, ElectricCar, Hybrid and SprotCar. Fillable and Chargeable are the protocols that are implemented in the project.

* **Challenges faced during implementation**

Although, the project was easy to complete however, we faced some difficulties while compiling and running the last section of output correctly.

Moreover, it was quite challenging to modify the OOP program into the POP program because it was new concept for us and took some time to understand and get the result.

* **Overcome difficulties**

There is no doubt that the project was a little bit tricky and was difficult to understand and implement but somehow we managed to solve the problem and get the desired result of project.

* **Tools used to complete the project**

We took help from the educational sites available on internet as well as the content uploaded on moodle. And this project was not possible without the help and guidance of our instructor.