**Oriental College of Technology**

**Department of CSE-Data Science**

**Course Code CD305**

**Course Name: OOPM**

*Course Outcome(CO) 4:* Analyze the polymorphism and its type in subprogram for improving user friendly interface

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| **S.n.** | **Assignment-4** | **CO** |
| **1.**  **2.** | Provide an example of a friend class, and explain the situations where it can be beneficial.  Describe what a static function is in the context of object-oriented programming. | CO4 |
| **3.**  **4.** | Create a C++ or Java program that combines the concepts of polymorphism, method overriding, virtual functions, friend functions, and static functions. Explain how each of these concepts is used in your program.  Provide an example of compile-time (static) polymorphism and explain how it works. | CO4 |

**Note:** Students are highly recommended to read the question carefully apply critical thinking and answer it with their best possible solution.