Design Patterns
W5A1

Topic: - Implement Factory Design Pattern

Description: - In this design pattern we have a factory object responsible for creating all objects.

Code : -

```
class Student {
  constructor(name) {
    this.name = name
    this.type = 'Student'
  }
}

class Teacher {
  constructor(name) {
    this.name = name
    this.type = 'Teacher'
  }
}

class PersonFactory {
  createPerson(name, type) {
    switch (type) {
      case 'Student': return new Student(name)
      case 'Teacher': return new Teacher(name)
    }
  }
}

const personFactory = new PersonFactory()
const personsDatabase = []
personsDatabase.push(personFactory.createPerson('Sushant', 'Student'))
personsDatabase.push(personFactory.createPerson('John', 'Teacher'))
console.log(personsDatabase)
```

Output : -

```
[
  Student { name: 'Sushant', type: 'Student' },
  Teacher { name: 'John', type: 'Teacher' }
]
```