**CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY**

**Chandubhai S Patel Institute of Technology**

**U & P U. Patel Department of Computer Engineering**

**Subject Name:** Advanced Web Technology

**Subject Code:** CE354

**Semester:** 5th **Academic Year:** 2023-24

Practical 10

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| **Aim:** | **Create an iterator that generates an infinite sequence of numbers and a generator that yields a sequence of even numbers. Use the iterator and generator in different scenarios** |
| **Code:** | *// class InfiniteNumberIterator {*  *//   constructor() {*  *//     this.current = 0;*  *//   }*  *//   next() {*  *//     return { value: this.current++, done: false };*  *//   }*  *// }*  *// const infiniteNumbers = new InfiniteNumberIterator();*  *// // Example usage of the iterator:*  *// for (let i = 0; i < 5; i++) {*  *//   console.log(infiniteNumbers.next().value);*  *// }*  function\* evenNumberGenerator() {    let num = 0;    while (true) {      yield num;      num += 2;    }  }  const evenNumbers = evenNumberGenerator();  *// Example usage of the generator:*  for (let i = 0; i < 5; i++) {    console.log(evenNumbers.next().value);  } |
| **Output:** |  |