

**GANPAT UNIVERSITY**  
**U.V. PATEL COLLEGE OF ENGINEERING**  
B.Tech 5th Semester CE/IT  
2CEIT5PE4: Software Packages

**Practical-2**

**Console based node.js applications**

- 1) Write a Node.js program to create a console application to check whether a user is eligible to sign-in or not based on age.

**Description:**

Prompt the user to enter following data using ReadLine package:

Enter Your Name  
Enter Your Age  
Enter Your Email ID  
Enter Your Mobile No.

**Rules, Logic and Condition in Entry:**

- If Age is less than  $< 18$  it will return and display the message:  
  
"Minimum required 18 years and your age is 16 , You should wait at least 2 year(s) more."
- If Age is greater than  $> 18$  it will return and display the message:  
  
"Great <UserName> you can sign in."  
"User Name : <UserName>"  
"Age : <UserAge> "  
"Email ID : <UserEmailID>"  
"Mobile : <UserMobile>"

- 2) Write a Node.js program to create an object named book using object literal syntax. Add book\_title, author and publish\_year as properties to the book object and assign it's appropriate values. Now create function print\_info() to print the book object to the console so the final output looks as below:

title: Harry Potter and the Sorcerer's Stone  
author: J.K. Rowling  
publish\_year: 1997

- 3) Create an array named products. Add objects to the array. Each object should be a single product, with 3 properties: name, inventory and unit\_price. Create two functions named listProducts() and totalValue(). A listProducts() function accepts a parameter -- the array of products and it should return an array of the names of the products. A function named totalValue() should accept a parameter -- the array of products and it should return the total value of all of the products in the array. To calculate the total value of one product multiply the inventory value with the unit\_price.**