| Group No. | Def. No. | Definitions | Guide Name | Area | STUDENTS |
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| G1 | 46 | Install Open Source Software BLENDER, 2.79 version from Ubuntu Software centre and perform the given task. Display the output in proper format.<br><br>Create a 3D animation of natural scene. Where Sun must be seen as rising and seting, flowe must be blloming and Cloud must be moving. | Prof. Nirja Shah | GRAPHICS PACKAGES | A64 MONIL SOMPURA<br>A70 SATWIK UPADHYAY<br>A56 DEVAM SHAH |
| G2 | 39 | Install Open Source Software OPENTOONZ, Version 1.3 and perform the following experiments givenbelow. Display the output (animation) in proper format.<br><br>Create animation for:<br>a. Create a man<br>b. Create an animation of running a man | Prof. Rinkal Shah | DESIGNNING & ANIMATION | A09 GRAHI BRAHMBHATT<br>A14 SABA GHEEWALA<br>A43 HEER PATEL |
| G3 | 3 | Install Open Source Software R studio IDE 3.0.1 with its gdebi-core package and perform the following operations given below. Display the output in proper format.<br><br>Write a R program to create a array and find maximum and minimum value from it. | Dr. Purna Tanna | PROGRAMMING LANGUAGES | B39 SAPNA RAVAL<br>B51 SHREYA SOLANKI<br>B60 ISHA THAKKAR |
| G4 | 32 | Install Open Source Software Maefloresta Tupitube-2D, Version 0.2.16 and perform thefollowing experiments givenbelow. Display the output (animation) in proper format.<br><br>Draw a garden scene and move a butterfly in the garden. | Prof.Bharti Shah | DESIGNNING & ANIMATION | A55 AISHWARYA SHAH<br>A12 MISHRI DAVE<br>A08 SAKSHI BHAVSAR |
| G5 | 7 | Install Open Source Software Swift, 5.0 and perform the following experiments / operations given<br>below. Display the output in proper format.<br><br>Write a program to create an array and display the average of and odd numers from it. | Prof.Ankita Pimputkar | PROGRAMMING LANGUAGES | B14 MEET KADIYA<br>A45 NIRAV PATEL<br>A65 AASTHA THAKKAR |
| G6 | 50 | Install Cpython and write a program to perform the following operation and display the output.<br><br>Create the database in SQLLite.<br><br>1. Create table named student with roll no, name, address, city and mobile no.<br>2. Fetch the details of students living in Ahmedabad city.<br>3. Fetch the details of students whose name starts with P.<br>4. Drop the student table. | Dr.Disha Shah | DATABASES | A24 BINDIYA LALWANI<br>A30 HAREENA MAURYA<br>B13 KUSUM GURNANI |
| G7 | 49 | Install Cpython and write a program to perform the following operation and display the output.<br><br>Create the database in SQLLite.<br>1. Create a database named GLS University.<br>2. Create tables named courses and departments.<br>3. Each department can have multiple courses.<br>4. Insert details and display the details. | Dr.Disha Shah | DATABASES | A58 PRIT SHAH<br>B58 SAGAR SUTHAR<br>A28 HARSHIL MANDALI |
| G8 | 10 | Install Open Source Software Scala-2.13.0.tgz with java pre installed in your system and perform the following operations given below. Display the output in proper format.<br><br>Display all the prime numbers from 1 to 100. | Prof.Chitresha Jain | PROGRAMMING LANGUAGES | A51 SANJANA RIJWANI<br>A32 SHIVANGI MEHTA<br>B69 YUKTA VYAS |
| G9 | 12 | Install Open Source Software Scala-2.13.0.tgz with java pre installed in your system and perform the following operations given below. Display the output in proper format.<br><br>Create an array of 10 elemnts.<br>Sort the array in assending order. | Prof.Chitresha Jain | PROGRAMMING LANGUAGES | B25 UTKARSH PANDYA<br>B61 RISHI THAKKAR<br>B64 RAJAS UDAS |
| G10 | 62 | Install Open Source Software TensorFlow with its supporting libraries and perform the following experiments /operations given below. Display the output in proper format.<br><br>Implement Nearest Neighbor algorithm with TensorFlow. | Prof.Ankita Kanojiya | AI | B42 DWITI SHAH<br>B52 UDITY SOLANKI<br>B62 KANISHKA TILWANI |
| G11 | 37 | Install Open Source Software OPENTOONZ, Version 1.3 and perform the following experiments givenbelow. Display the output (animation) in proper format.<br><br>Create animation for:<br>a. Bouncing ball<br>b. Moving clouds | Prof. Rinkal Shah | DESIGNNING & ANIMATION | B53 SHRISTEE SRIVASTAVA<br>B55 CHAMAN SUTHAR<br>B56 HARSH SUTHAR |
| G12 | 33 | Install Open Source Software Maefloresta Tupitube-2D, Version 0.2.16 and perform the following experiments givenbelow. Display the output (animation) in proper format.<br><br>Draw the clouds with sun and move the clouds in the sky which shows sun hiding behind the clouds. | Prof.Bharti Shah | DESIGNNING & ANIMATION | B04 HELI BHAVSAR<br>B30 JANVI PATEL<br>B38 AYUSHI PRAJAPATI |
| G13 | 44 | Install Open Source Software Bluefish 2.2 for the Dynamic Website nd perform the following experiments given<br>below.<br><br>1.Code five dynamic web pages based on HTML, Java Script and CSS<br>2.Display the output in proper format. | Dr. Ankit Bhavsar | APPLICATION DEVELOPMENT | B09 VRUTIK DHOLAKIA<br>B24 MEHUL PANCHAL<br>B65 PRATHAM UPADHYAY |

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| G14 | 69 | Install Open Source Framework ReactJs, 16.3 with nodejs and npm and perform the following experiments /operations given below. Display the output in proper format.<br><br>write a jsx code to display button increment, when button pressed count of the increment should be display on browser. | Prof.Ridhdhi Kundal | FRAMEWORK | A40 VIVEK PALADIYA<br>A26 BHARGAV MAKANI<br>A29 RAJESH MANGUKIYA |
| G15 | 19 | Install any Text Editor and GO Compiler.<br>Create the Tic Tac Toe Game using Golang. | Prof.Jainin Vakil | PROGRAMMING LANGUAGES | B57 SUTHAR RUSHI<br>B16 KANSARA APURVA<br>B50 SOLANKI ABHINAV |
| G16 | 8 | Install Open Source Software Swift, 5.0 and perform the following experiments /operations given<br>below. Display the output in proper format.<br><br>Write a program to create a user defined function to find maximum of two values. | Prof.Ankita Pimputkar | PROGRAMMING LANGUAGES | A42 PATEL ANJALI H.<br>B28 PATEL ARZU R.<br>B27 PATEL AAKASH M. |
| G17 | 4 | Use Google language GO, Version go1.15 and perform the following for an Array -<br><br>Find an element in an Array.<br>Sort the given Array. | Prof.Anjali Bobra | PROGRAMMING LANGUAGES | B45 LAXIT SHAH<br>B66 KUSH VACHHARAJANI<br>B41 DHRUVI SHAH |
| G18 | 42 | Explore the open source softwares for 3D animation.<br><br>a)Explore Clara.io. Create an animation.<br>b) Install Blender 3D animation software.<br><br>Learn and explore the software using online videos and documentation available. Create a 3D object model of chair. Create an animation of the object. Put various effects. | Prof. Tripati Dodiya | DESIGNNING & ANIMATION | B47 VIRAG SHAH<br>B03 NEEL BAROT<br>B23 HEMAL |
| G19 | 34 | Install Open Source Software Flutter, with latest Version and perform the following experiments givenbelow. Display the output in proper format.<br><br>Create a Sign Up(Registration) Form. | Prof.Neha Vaswani | DESIGNNING & ANIMATION | A35 ANUJ MODI<br>B17 BHAVIK KASODARIYA<br>A31 HIMANI MEHTA |
| G20 | 47 | Install Open Source Software BLENDER, 2.79 version from Ubuntu Software centre and perform the given task. Display the output in proper format.<br><br>Create 3d Amination of an animal cating nut (like ice age movie) | Prof. Nirja Shah | GRAPHICS PACKAGES | B06 TANAY BHAVSAR<br>B07 AYUSH DAVE<br>B12 ZEEL GUDHKA |
| G21 | 51 | Install Cpython and write a program to perform the following operation and display the output.<br><br>Create the database in SQLLite.<br><br>1. Create table named product with product id, product name, price and quantity.<br>2. Sort and Fetch the details of products.<br>3. Fetch the details of products with total amt = price * quantity<br>4. Delete a product whose price is less than 10. | Dr.Disha Shah | DATABASES | A03 NANDINI AGRAWAL<br>A05 VIDHI ASODARIYA<br>A54 PALLAVI SEVAK |
| G22 | 31 | Install Open Source Software Maefloresta Tupitube-2D, Version 0.2.16 and perform the following experiments givenbelow. Display the output (animation) in proper format.<br><br>Draw 5 balls and move these balls from left to right with different speed. | Prof.Bharti Shah | DESIGNNING & ANIMATION | A66 RUCHANSU THAKAR<br>A39 RUTVIK NAGADIA<br>B20 PARTH MAJUMDAR |
| G23 | 18 | Install Open Source Software JAVA and perform the following experiments operations given below Display the output in proper format.<br>Using Applet Create Tic-Tac-Toe Game. | Prof.Heta Dasondi | PROGRAMMING LANGUAGES | B46 SAUMIL SHAH<br>A50 UTSAV PRAJAPATI<br>B43 KATHAN SHAH |
| G24 | 53 | Install Open Source Database Software Mongo DB and perform the following operations given below. Display the output in proper format.<br><br>Create a database restaurant and create a collection of fields with atleast 5 records.<br>Write a MongoDB query to display all the documents in the collection restaurant.<br>Write a MongoDB query to find the restaurant Id, name, city and cuisine for those restaurants which prepared dish except 'Mexican' and 'Chinese' or restaurant's name begins with letter 'S'.<br>Write a MongoDB query to find the restaurant Id, name, and cuisine for those restaurants which contain 'ake' as three letters somewhere in its name. | Prof.Monica Gupta | DATABASES | B63 RAJ TRIVEDI<br>B22 SHREY MODI<br>B26 KUNAL |
| G25 | 35 | Install Open Source Software Flutter, with latest Version and perform the following experiments givenbelow. Display the output in proper format.<br><br>Create a Login Form. | Prof.Neha Vaswani | DESIGNNING & ANIMATION | A17 KUNAL JAIN<br>A62 MAADHAV SHARMA<br>A63 MOHIT SHARMA |
| G26 | 23 | Install Open Source Software Google Go 1.15 (golang) and perform the following operations given below and display the output.<br><br>Program in Go language to perform addition of two matrices. | Prof.Jyoti Dubey | PROGRAMMING LANGUAGES | B10 DUBEY GAGAN<br>B15 KALAYNIYA VISHAL<br>B70 YADAV AKASH. |
| G27 | 6 | Use Google language GO, Version go1.15 and perform the following for Structures -<br><br>Implement Structure of Book(B_id,Book_name,Book_subject).<br>Create Array of structure for N books(N to be entered by user) | Prof.Anjali Bobra | PROGRAMMING LANGUAGES | B02 KRISH BAGADIA<br>B49 TRUSHIL SHRIVASTAVA<br>B68 DHYEY VYAS |
| G28 | 68 | Install Open Source Framework ReactJs, 16.3 with nodejs and npm and perform the following experiments /operations given below. Display the output in proper format.<br><br>write a jsx code to enter array elements and display it. | Prof.Ridhdhi Kundal | FRAMEWORK | B32 PATEL SHIVANI<br>B44 SHAH KHUSHI<br>B71 ZALA JANKIBA |
| G29 | 17 | Install Open Source Software JAVA and perform the following experiments operations given below Display the output in proper format.<br>Using Applet Create Quiz where user enters his/her details and MCQ based quiz showing result at the end. | Prof.Heta Dasondi | PROGRAMMING LANGUAGES | A18 DINESH JUMANI<br>A21 BHAVIK KESWANI<br>A33 SHRUTI MEHTA |

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| G30 | 54 | Install Open Source  Database Software Mongo DB and perform the following operations given below. Display the output in proper format.<br><br>Create a database Books and create a collection of  fields with atleast 5 records.<br>Write a MongoDB query to display all the documents in the collection Books.<br>Write a MongoDB query to find the Book id , name,title , author and price for those Books whose price is greater than 2000.<br>Update the name and price of the book whose book name starts with J ( without case sensitive). | Prof.Monica Gupta | DATABASES | A02 JAINA ADWANI<br>A71 NIYATI VIRANI<br>B29 DHARTI PATEL |
| G31 | 64 | Explore Open Source Plateform NN-SVG, Online version and perform the following experiments given below. Display the output in the proper format.<br>Design an artificial neural network structure having 4 layers using FCNN style.<br><br>a. One input layer having 10 neurons<br>b. Two hidden laters having 7 neurons<br>c. One output layer having 2 neurons | Prof.Kinjal Patel | AI | A11 DRASHI DAVE<br>A48 SANJANA PRAJAPATI<br>A46 SHREENA PATEL |
| G32 | 38 | Install Open Source Software OPENTOONZ, Version 1.3  and perform the following experiments  givenbelow. Display the output (animation) in proper format.<br><br>   Create animation for:<br>a. Create a 3D object model<br>b. Create an animation of the object. | Prof. Rinkal Shah | DESIGNNING & ANIMATION | B05 KRISHA BHAVSAR<br>B36 HADIYA PATHAN<br>B37 SAHALKHAN PATHAN |
| G33 | 36 | Install Open Source Software Flutter, with latest Version and perform the following experiments  givenbelow. Display the output in proper format.<br><br>Create a choice filling form for Hobbies. | Prof.Neha Vaswani | DESIGNNING & ANIMATION | A68 DEVARSH TRIVEDI<br>A15 DEVARSHI GOR<br>A37 ZEBE MOLIL |
| G34 | 9 | Install Open Source Software Swift, 5.0 and perform the following experiments /operations given<br>below. Display the output in proper format.<br><br>Write a program to create calculator using decision making structure. | Prof.Ankita Pimputkar | PROGRAMMING LANGUAGES | A20 ANAS KARIYANIYA<br>A41 JAY PANCHAL<br>A23 KOTHARIA SAMIR HUSSAIN . |
| G35 | 40 | Explore the open source softwares for 2D animation. Install Synfig studio. Learn and explore the software using online videos and documentation available.<br><br>Create a animation using different scenes and different features. | Prof. Tripati Dodiya | DESIGNNING & ANIMATION | B11 BHUMI GOHEL<br>B59 SWARA SUTHAR<br>B72 RIDHHI RAVAL |
| G36 | 48 | Install Open Source Software BLENDER, 2.79 version from Ubuntu Software centre and perform the given task. Display the output in proper format.<br><br>create 3d animation where a person tryinf to fishing. | Prof. Nirja Shah | GRAPHICS PACKAGES | A27 BANSARI MALAVIYA<br>B08 HETVI DESAI<br>B40 KHUSHI SHAH |
| G37 | 52 | Install Open Source  Database Software Mongo DB and perform the following operations given below. Display the output in proper format.<br><br>Create a database employee and create a collection of  fields with atleast 5 records.<br>Write a MongoDB query to display all the documents in the collection employee.<br>Write a MongoDB query to find the Emp id , name and grades for those employee where the 2nd<br>        element of grades array contains a grade of "A" and score 9 on an  Date "2014-08-11"<br>Display the record in decending order. | Prof.Monica Gupta | DATABASES | B19 MAYUR KESWANI<br>B54 SURAJ SUKHIYA<br>A38 MUSKAN MOTIANI |
| G38 | 24 | Install Open Source Software  Google Go 1.15  (golang) and perform the following operations given below and display the output.<br><br>Program in Go to take input strings from user and perform concatenation of two strings. | Prof.Jyoti Dubey | PROGRAMMING LANGUAGES | A01 DHRUVI ACHARYA<br>A04 VANSHIKA AMIN<br>A52 DHWANI SANGHVI |
| G39 | 25 | Install Go lang  with version1.15 to perform following problem.<br>Create the multidimensional array and find that array is sparse or not. | Prof.Nirav Suthar | PROGRAMMING LANGUAGES | A25  PARTH LIMBADIA<br>A44 MAHARSHI PATEL<br>A10  KIRTAN DARJI |
| G40 | 2 | Install Open Source Software R studio IDE 3.0.1 with its gdebi-core package and perform the following operations given below. Display the output in proper format.<br><br>Write a R program to sort a array. | Dr. Purna Tanna | PROGRAMMING LANGUAGES | A22 DEEP KOTECHA<br>A57 PRATHAM SHAH<br>B34 VASSU PATEL |
| G41 | 5 | Use Google language GO, Version go1.15 and perform the following on Strings-<br><br>Ask user to enter a nursry ryhyme and print the count of vowels and consonants.<br>Find the lenght of the nursry ryhyme and concat this with another ryhyme. | Prof.Anjali Bobra | PROGRAMMING LANGUAGES | B35 PATHAN AAFREEN M<br>A61 SHAIKH SAROSH A HUSSAIN<br>A49 PRAJAPATI SHRUTI RAVINDRABHAI |
| G42 | 22 | Install Open Source Software  Google Go 1.15  (golang) and perform the following operations given below and display the output.<br><br>Program in Go language to print Pascal's triangle. | Prof.Jyoti Dubey | PROGRAMMING LANGUAGES | A06 VATSAL BHATIYA<br>A67 PINKESH TRIPATHI |
| G43 | 27 | Install Go lang  with version1.15 to perform following problem.<br>        Write a program which read the number from user and find factorial, sqare and cube of that number and display it. | Prof.Nirav Suthar | PROGRAMMING LANGUAGES | A59 SAHIL SHAH<br>A60 SAUMYA SHAH<br>A07 PARTH BHAVNANI |
| G44 | 1 | Install Open Source Software R studio IDE 3.0.1 with its gdebi-core package and perform the following operations given below. Display the output in proper format.<br><br>Write a R program to check whether the number is prime or not. | Dr. Purna Tanna | PROGRAMMING LANGUAGES | A53 SAVNANI ROHAN<br>A69 UPADHYAY RAHUL<br>B21 MANDHWANI ACHIN |
| G45 | 11 | Install Open Source Software Scala-2.13.0.tgz with java pre installed in your system and perform the following operations given below. Display the output in proper format.<br><br>Create an array of 20 size and search a perticular element entered by user in that array. | Prof.Chitresha Jain | PROGRAMMING LANGUAGES | B31 PATEL KISHAN<br>B33 PATEL TIRTH<br>B18 KAYASTHA DEV |