**Department of Computer Science & Enginnering**

**MOBILE APP DEVELOPMENT (R20)**

**LIST OF EXPERIMENTS**

**SIZE – (2\*3) Count- 1 No**

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| Exercise-1 | Introduction to mobile technologies and devices, Android platform and applications overview. |
| Exercise-2 | Setting Android development environments. |
| Exercise-3 | Writing Android applications, Understanding anatomy of an Android application. |
| Exercise-4 | Develop an application that uses GUI components, Font and Colors. |
| Exercise-5 | Develop an application that uses Layout Managers and event listeners. |
| Exercise-6 | Write an application that draws basic graphical primitives on the screen. |
| Exercise-7 | Develop an application that makes use of databases. |
| Exercise-8 | Develop an application that makes use of Notification Manager. |
| Exercise-9 | Implement an application that uses Multi-threading. |
| Exercise-10 | Develop a native application that uses GPS location information. |
| Exercise-11 | Implement an application that writes data to the SD card. |
| Exercise-12 | Implement an application that creates an alert upon receiving a message. |
| Exercise-13 | Write a mobile application that makes use of RSS feed. |
| Exercise-14 | Develop a mobile application to send an email. |
| Exercise-15 | Develop a Mobile application for simple needs (Mini Project) |

**Department of Computer Science & Enginnering**

R PROGRAMMING LAB (R20)

**LIST OF EXPERIMENTS**

**SIZE – (3\*4) Count- 1 No**

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| Exercise-1 | Write a R program to take input from the user (name and age) and display the values. Also print the version of R installation. |
| Exercise-2 | Write a R program to get the details of the objects in memory |
| Exercise-3 | Write a R program to create a sequence of numbers from 20 to 50 and find the mean of numbers from 20 to 60 and sum of numbers from 51 to 91. |
| Exercise-4 | Write a R program to create a simple bar plot of five subjects marks |
| Exercise-5 | Write a R program to get the unique elements of a given string and unique numbers of vector. |
| Exercise-6 | Write a R program to create three vectors a,b,c with 3 integers. Combine the three vectors to become a 3×3 matrix where each column represents a vector. Print the content of the matrix. |
| Exercise-7 | Write a R program to create a 5 x 4 matrix , 3 x 3 matrix with labels and fill the matrix by rows and 2 × 2 matrix with labels and fill the matrix by columns. |
| Exercise-8 | Write a R program to combine three arrays so that the first row of the first array is followed by the first row of the second array and then first row of the third array. |
| Exercise-9 | Write a R program to create a two-dimensional 5x3 array of sequence of even integers greater than 50 |
| Exercise-10 | Write a R program to create an array using four given columns, three given rows, and two given tables and display the content of the array. |
| Exercise-11 | Write a R program to create an empty data frame. |
| Exercise-12 | Write a R program to create a data frame from four given vectors. |
| Exercise-13 | Write a R program to create a data frame using two given vectors and display the duplicated elements and unique rows of the said data frame. |
| Exercise-14 | Write a R program to save the information of a data frame in a file and display the information of the file. |
| Exercise-15 | Write a R program to create a matrix from a list of given vectors. |
| Exercise-16 | Write a R program to concatenate two given matrices ofsame column but different rows. |
| Exercise-17 | Write a R program to find row and column index of maximum and minimum value in a given matrix. |
| Exercise-18 | Write a R program to append value to a given empty vector. |
| Exercise-19 | Write a R program to multiply two vectors of integers type and length 3. |
| Exercise-20 | Write a R program to find Sum, Mean and Product of a Vector, ignore element like NA or NaN. |
| Exercise-21 | Write a R program to list containing a vector, a matrix and a list and give names to the elements in the list. |
| Exercise-22 | Write a R program to create a list containing a vector, a matrix and a list and give names to the elements in the list. Access the first and second element of the list. |
| Exercise-23 | Write a R program to create a list containing a vector, a matrix and a list and remove the second element. |
| Exercise-24 | Write a R program to select second element of a given nested list. |
| Exercise-25 | Write a R program to merge two given lists into one list. |
| Exercise-26 | Write a R program to create a list named s containing sequence of 15 capital letters, starting from ‘E’. |
| Exercise-27 | Write a R program to assign new names "a", "b" and "c" to the elements of a given list |
| Exercise-28 | Write a R program to find the levels of factor of a given vector |
| Exercise-29 | Write a R program to create an ordered factor from data consisting of the names of months. |
| Exercise-30 | Write a R program to concatenate two given factor in a single factor. |

**Department of Computer Science & Enginnering**

**INTRODUCTION TO ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING LAB (R20)**

**LIST OF EXPERIMENTS**

**SIZE – (2\*3) Count- 1 No**

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| --- | --- |
| Exercise-1 | Implementation of DFS for water jug problem using LISP/PROLOG |
| Exercise-2 | Implementation of BFS for tic-tac-toe problem using LISP/PROLOG/Java |
| Exercise-3 | Implementation of TSP using heuristic approach using Java/LISP/Prolog |
| Exercise-4 | Implementation of Simulated Annealing Algorithm using LISP/PROLOG |
| Exercise-5 | Implementation of Hill-climbing to solve 8- Puzzle Problem |
| Exercise-6 | Implementation of Monkey Banana Problem using LISP/PROLOG Implement and demonstrate FIND-S algorithm for finding the most specific hypothesis based on a given set of training data samples. Read the training data from a . csv file. |
| Exercise-7 | For a given set of training data examples stored in a .csv file, implement and demonstrate the candidate elimination algorithm to output a description of the set of all hypotheses consistent with the training examples |
| Exercise-8 | Write a program to demonstrate the working of the decision tree classifier. Use appropriate dataset for building the decision tree and apply this knowledge to classify a new sample. |
| Exercise-9 | Write a program to demonstrate the working of Decision tree regressor. Use appropriate dataset for decision tree regressor. |
| Exercise-10 | Write a program to demonstrate the working of Random Forest classifier. Use appropriate dataset for Random Forest Classifier |
| Exercise-11 | Write a program to demonstrate the working of Logistic Regression classifier. Use appropriate dataset for Logistic Regression. |

**NAME BOARD: Size- (1\*1) Count-1**

**N Madhuri (Asst Professor)**

**Lab Incharge**