**Bachelors of Science**

**SEM I**

**Journal**

|  |  |
| --- | --- |
| **Roll No.** | 001 |
| **Name** | Alston Alvares |
| **Subject** | Programming principles with C. |

**ANANDIBAI DAMODAR KALE** **ANANDIBAI DAMODAR KALE**

**SHAIKSHANIK SANSTHA’S** **DEGREE COLLEGE OF ARTS & COMMERCE**

Saibaba Nagar, Borivali (West), Mumbai – 400 092

Tel.: 2807 7126

Email: adkdcollege@yahoo.com / www.adkdcollege.in

ISO 9001: 2008 Certified

# CERTIFICATE

This is here to certify that Mr/Ms. **Alston**

**Alvares**, Seat Number **001** of B.Sc. IT, has satisfactorily completed the required number of experiments prescribed by the **ANANDIBAI DAMODAR KALE DEGREE COLLEGE AFFILIATED TO UNIVERSITY OF**

**MUMBAI** during the academic year 2022 – 2023.

Date:

Place: Mumbai

Teacher In-Charge Head of Department

External Examiner

## INDEX

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **List of Experiments** | **Page No** | **Date** | **Sign** |
|  | **a.**Write an algorithm and draw flowchart for Area of circle.  **b.**Write an algorithm and draw flowchart to print the given no. is even or odd.  **c.**Write an algorithm and draw flowchart to print 1 to 10 numbers.  **d.**Write an algorithm and draw flowchart for sum of 1 to 5 numbers.  **e.**Write an algorithm and draw flowchart to compute the addition of digits of a given number. | 01-05 |  |  |
|  | **a.**Write a program using while loop to reverse the digits of a number.  **b.**Write a program to calculate the factorial of a given number.  **c.**Write a program to find the roots of quadratic equation.  **d.**Write a program to print the Fibonacci series. | 06-12 |  |  |
|  | **a.**Write a program in C to check entered character vowel or consonant  **b.**Write a program to C program to print day name of week using switch case.  **c.**Write a program to read three values from keyboard and print out the largest of them without using if statement. | 13-17 |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **4** | **a.**Write a program to print the pattern of asterisks as shown below:  \*   * \* * \* \* * \* \* \*   **b.**Write a program to print the pattern of asterisks as shown below:   * \* \* \* \* * \* \* \* * \* \* * \*   \*  **c.**Write a program to print Floyd’s Triangle. | 18-21 |  |  |
|  | **a.**Write a program to print area of square using function.  **b.**Write a program using recursive function.  **c.**Write a program to square root, abs() value using function.  **d.**Write a program using goto statement. | 22-27 |  |  |
|  | **a.**Write a program to print rollno and names of 10 students using array.  **b.**Write a program to read a matrix of size m\*n.  **c.**Write a program to sort the elements of array in ascending or descending order. | 28-35 |  |  |
|  | **a.**Write a program to extract the portion of a character string and print the extracted part.  **b.**Write a program to find the given string is palindrome or not.  **c.**Write a program to using strlen(), strcmp() function. | 36-40 |  |  |
|  | **a.**Write a program to display the values using different data types and its address using pointer.  **b.**Write a program to perform addition and subtraction using pointer. | 41-44 |  |  |
|  | **a.**Write a program to copy the contents of the file from one file into other.  **b.**Write a program to print the structure  using • Title • Author • Subject • Book ID Print the details of two students. | 45-48 |  |  |
| **10** | Create a mini project on “Bank management system”. The program should be menu driven. | 49-52 |  |  |

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **List of Figure’s** | **Page No** |
| 1 | Flowchart for Area of Circle. | **1** |
| 2 | Flowchart to print the given no. is even or odd. | **2** |
| 3 | Flowchart to print 1 to 10 numbers. | **3** |
| 4 | Flowchart for sum of 1 to 5 numbers. | **4** |
| 5 | Flowchart to compute the addition of digits of a given number. | **5** |