PRACTICAL SET – PPS (3110003)
Information Technology Department, GEC-Bhavnagar

Practical Set 1

1. Write a program to print —HELLO FRIENDS.
2. Write a program that reads two nos. from key board and gives their addition, subtraction, multiplication, division and modulo.
3. Write a program to convert days into months and days.
4. Write a program that converts Fahrenheit temperature to centigrade [C.= 5/9 * (F-32)]
5. Write a C Program to calculate the area of a Circle.
6. Write a program that evaluates the polynomial 4x3-5x+9

Practical Set 2

1. Write a C program to determine a given number is 'odd' or 'even' and print the following message "Number is ODD" or "Number is Even" (i) Without using else option. (ii) With else option
2. Write a Program to accept three numbers from User and Print Maximum number
3. Write a program to perform addition, multiplication, subtraction and division with Switch statement
4. Write a "C" Program that reads number from 1 to 7 and accordingly it should print MONDAY to SUNDAY.
5. Write a C program to evaluate the square root for five numbers using the goto statements.

Practical Set 3

1. Assume that you want to make the sum of 1 to 100. Give the necessary code to perform the same using (1) For loop (2) While loop (3) Do-while loop
2. Write a C program to print multiple of N from given range of unsigned integers. For example, if N=5 and range is [17, 45] it prints 20, 25, 30, 35, 40, 45.
3. Write a C program to count ODD and EVEN numbers from given 10 numbers
4. Write a program in C for finding sum of 1 to k.The number k should be read from the keyboard using scanf().
5. Write a program to find the sum of first N odd numbers.
6. Write a program to print 1+1/2+1/3+1/4+……+1/N series.
7. Write a program to find sum of all integers greater than 100 & less than 200 and are divisible by 5.

Practical Set 4

1. Write a program to display multiplication table.
2. Write a program to check whether the given number is Prime or not. OR Write a C program to find and print prime numbers between the numbers 1 to n, where the number n should be read from the keyboard.
3. Write a program to generate fibonacci series of numbers
4. Write a C program to find out Armstrong Numbers between 0 and 999. Example: - 153 is an Armstrong Number.
5. Write a C program to reverse a number.

Practical Set 5

1. Write a program to print following patterns :

```
i      *              ii    *          iii *****
       * *                 *   *           ****
       * * *               *   *   *         ***
       * * * *             *   *   *   *       **
       * * * * *           *   *   *   *   *       *
```

```
i      1          ii  12345     iii   55555     iv   1                  i AAAAA      ii ABCDE
       12             1234           4444           22                    BBBB          ABCD
       123            123            333            333                   CCC           ABC
       1234           12             22             4444                  DD            AB
       12345          1              1              55555                 E             A
```

Practical Set 6

1. Write a C program read in an array of integers and print its elements in reverse order
2. Write a C program to read 10 numbers from user and find Sum, Maximum, Minimum and Average of them
3. Write a program which declares array of 10 integers, enter data and sum all the elements which are even. Also find maximum number from them.
4. Write a C Program to accept array of N integers and find Largest odd number as well as largest even number and display them.
5. Write a program in C to sort N integer Numbers in ascending order.

Practical Set 7

1. Write a program using function to find maximum of two numbers.
2. Write a function which receives number as argument and return sum of digit of that number.
3. Write a C function to exchange two numbers and use it to reverse an array of 10 integers accepted from user.
4. Write a program to generate Fibonacci series of n given numbers using function named fibbo.
5. Write a function which accepts a string and returns the length of the string.

Practical Set 8

1. Write a C function to reverse a word. Use it to reverse each word of a string given by user
2. Write a C program in which a 5 digit positive integer is entered through keyboard; write a function to calculate the sum of digits of the 5 digit number with using recursion.
3. Write a C program to find factorial of n using recursive use of functions.
4. Write a C program to call a function to find sum of first n natural numbers using recursion.

Practical Set 9

1. Write a program to do swapping of two elements using pointers.
2. Write a program to read integer numbers in an m[10] array, and print the elements of this array using pointers.
3. Write a program to do swapping of two elements using function with two pointers as arguments.
4. Write a program to find out sum of 6 elements of array using pointer.
5. Write a program using pointer and function to determine the length of string

Practical Set 10

1. Write a program to display the contents of a given file.
2. Write a program to read merit marks of 100 students from keyboard in an m[100] array, and store this m array on DATA file, and to read these marks from the DATA file and display them on the monitor