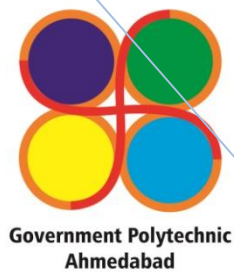


**Lab Manual
of
Programming in
C++(3330702)
Semester – 3**



**Government Polytechnic, Ahmedabad
Diploma in Computer Engineering**

Name of Student : _____

Enrollment No
: _____

Shift : _____ Division : _____

GTU Term Date : ____ / ____ / ____ To ____ / ____ / ____



GOVERNMENT POLYTECHNIC, AHMEDABAD
COMPUTER ENGINEERING DEPARTMENT

CERTIFICATE

This is to certify that Mr./Miss _____

of _____ class , Semester _____, Enrollment No. _____

has satisfactorily completed his/her term work in Programming in C++

(3330702) for the term ending in _____.

Date of Submission: - ____/____/____

Ms.Bhoomika sharma

(Course in Charge)

Prof.H.J.Baldaniya

Head of the Department

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2.	Program to calculate factorial of given number using WHILE LOOP.				
3.	Program to check whether the given number is palindrome or not.				
4.	Program to check whether the given number is Armstrong or not.				
5.	Write a program to reverse element of array.				
6.	Write a program to add two arrays.				
7.	Write a program that display square, cube & factorial of all integer from 1 to 10.				
8.	Write a program that accepts five number and print max and min from them.				
9.	Write a program that accept a number and find whether given number is even or odd.				
10.	Using classes write a program to input and display a student's Roll no, name, sem, branch.				
11.	Using a class called item write a program to get and display the quantity and cost of three items.				
12.	Write a program to calculate the largest of three numbers using class.				
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14.	Write a program to swap the two numbers using call by value and reference.				
15.	Write a program to demonstrate inline function.				
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17.	Write a program to demonstrate the use of constant argument.				
18.	Write a program to calculate the area of triangle, circle, and rectangle using function overloading.				

19.	Write a program to demonstrate nested member function in class.				
20.	Write a program to demonstrate private member function.				
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24.	Write a program to find addition of time (hours and minutes) using object as argument and return the object.				
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26.	Write a program to demonstrate memory dereferencing operator (::*,*, ->*).).				
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28.	Write a program to demonstrate the constructor overloading in a class.				
29.	Write a program to demonstrate the copy constructor and dynamic constructor.				
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35.	Write a program to demonstrate constructor call in derived class.				
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38.	Write a program to use pointer with array.				
39.	Write a program to use array of pointer.				
40.	Write a program to demonstrate this pointer.				
41.	Write a program to demonstrate virtual function.				
42.	Write a program to demonstrate runtime polymorphism.				
43.	Write a program to demonstrate all the stream classes functions (get(), put(), getline(), write()).				
44.	Write a program to demonstrate formatted console I/O operations.				

PRACTICAL : 1

**Program: TO find whether the entered number is prime
or composite**

OUTPUT:

Sign of Faculty

PRACTICAL : 2

Program: To Find factorial using While loop :

OUTPUT:

Sign of Faculty

PRACTICAL : 3

Program : To check whether the entered number is

OUTPUT:

Sign of Faculty

PRACTICAL : 4

Program : To check whether the entered number is Armstrong or not :

OUTPUT:

PRACTICAL : 5

Program : To reverse the elements of array :

OUTPUT:

Sign of Faculty

PRACTICAL : 6

Program: To add two Arrays:

OUTPUT:

Sign of Faculty

PRACTICAL : 7

Program: Display Cube , Square , Factorial of 1 to 10 integers :

OUTPUT:

PRACTICAL : 8

Program: Accept 5 no's from the user and print minimum and maximum from them. :

OUTPUT:

PRACTICAL : 9

**Program: To Find whether the entered number is odd
orEven**

OUTPUT:

PRACTICAL : 10

**Program: To Display students name , roll no , branch ,
sem using class:**

OUTPUT:

Sign of Faculty

PRACTICAL : 11

Program: To Display quantity and cost of three items:
#include<iostream.h>

OUTPUT:

PRACTICAL : 12

Program: To find largest number from the three numbers:

OUTPUT:

PRACTCAL : 13

**Program: Using Manipulators [setw , endl , setprecision ,
setfill }:**

OUTPUT:

PRACTICAL : 14

**Program: Swapping two values using call by value and
call by**

OUTPUT:

Sign of Faculty

PRACTICAL : 15

Program: To demonstrate inline function:

OUTPUT:

Sign of Faculty

PRACTICAL : 16

Program: To demonstrate the use of default Argument:

OUTPUT:

Sign of Faculty

PRACTICAL : 17

Program: To demonstrate constant argument:

OUTPUT:

Sign of Faculty

PRACTICAL : 18

Program: To find the area of circle , triangle and rectangle using function overloading:

OUTPUT:

PRACTICAL : 19

Program: TO demonstrate nested member function:

OUTPUT:

Sign of Faculty

PRACTICAL : 20

Program: To demonstrate private member function:

OUTPUT:

Sign of Faculty

PRACTICAL : 21

Program: To demonstrate static data member and static member function:

OUTPUT:

Sign of Faculty

PRACTICAL : 22 / 23

Program: To demonstrate array of objects:

OUTPUT:

Sign of Faculty

PRACTICAL : 24

Program: To find addition of time [hours and minutes]
using object as argument and return that argument:

OUTPUT:

PRACTICAL : 25

Program: To find Maximum and Minimum from two number both the numbers are declared in two different classes

Create one Friend Function called Max :

OUTPUT:

PRACTICAL : 27

Program: To demonstrate Default and Parameterized

OUTPUT:

Sign of Faculty

PRACTICAL: 28

**Program: To Demonstrate the Constructor Overloading in
the class:**

OUTPUT:

Sign of Faculty

PRACTICAL : 29

Program: To demonstrate copy constructor and dynamic

OUTPUT:

Sign of Faculty

PRACTICAL : 30

Program: To demonstrate the Destructor:

}

OUTPUT:

Sign of Faculty

PRACTICAL : 31

Program: To demonstrate Single Inheritance:

OUTPUT:

Sign of Faculty

PRACTICAL : 32

**Program: To demonstrate Access Specifier[private ,
Protected , Public]**

OUTPUT:

Sign of Faculty

PRACTICAL : 33

Program: To Demonstrate Multiple Inheritance:

OUTPUT:

Sign of Faculty

PRATICAL : 34

Program: To demonstrate Multi – Level Inheritance:

OUTPUT: