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

Government Polytechnic Ahmedabad

Government Polytechnic, Ahmedabad
Diploma in Computer Engineering

Name of Student :_____

Enrollment No :_____

Shift : _____ **Division :** _____

GTU Term Date :_____ / _____ / _____ **To** _____ / _____ / _____

Computer Engineering Department
CE
Government Polytechnic Ahmedabad

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 **Prof.H.J.Baldaniya**

(Course in Charge) **Head of the Department**

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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.				
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13.	Write a program using simple Manipulators (endl, setw, setfill, setprecision).				
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19.	Write a program to demonstrate nested member function in class.				
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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:

Sign of Faculty

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: Displaay Cube , Square , Factorial of 1 to 10 integers :

OUTPUT:

Sign of Faculty

PRACTICAL : 8

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

OUTPUT:

Sign of Faculty

PRACTICAL : 9

Program: To Find whether the entered number is odd orEven

OUTPUT:

Sign of Faculty

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:

Sign of Faculty

PRACTICAL : 12

Program: To find largest number from the three numbers:

OUTPUT:

Sign of Faculty

PRACTCAL : 13

Program: Using Manipulators [setw , endl , setprecision , setffill}:

OUTPUT:

Sign of Faculty

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:

Sign of Faculty

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:

Sign of Faculty

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:

Sign of Faculty

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:

Sign of Faculty