OBJECT ORIENTED PROGRAMMING PRACTICAL RECORD

**NAME OF THE STUDENT :** PRERNA BANSAL **UNIVERSITY ROLL NO. :** 35120803119 **BRANCH :** INFORMATION TECHNOLOGY **GROUP :** G-2

**CLASS ROLL NO. :** 48-IT-19

**PRACTICAL DETAILS**

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| **S.NO** | **PROGRAM NAME** | **DATE OF PERFORMANCE** | **DATE OF CHECKING** | **REMARKS** | **MARKS** |
| 1 | Write a program to determine the factorial of a  number using recursion. | 20/03/2021 | 27/03/2021 |  |  |
| 2 | Write a program to determine the largest of  three numbers using macros. | 20/03/2021 | 27/03/2021 |  |  |
| 3 | Using the concept of function overloading write function for calculating the area of triangle , circle and  rectangle. | 20/03/2021 | 27/03/2021 |  |  |
| 4 | Write a program for multiplication of two  matrices using OOPS. | 27/03/2021 | 03/04/2021 |  |  |
| 5 | Write a program for implementation of inline  function using OOPS. | 27/03/2021 | 03/04/2021 |  |  |
| 6 | Write a program to implement new , delete  operator using OOPS. | 03/04/2021 | 10/04/2021 |  |  |
| 7 | Write a program to implement constructor and  destructor using OOPS. | 03/04/2021 | 10/04/2021 |  |  |
| 8 | Write a program to enter any number and find its  factorial using constructor. | 10/04/2021 | 17/04/2021 |  |  |
| 9 | Write a program to perform  addition of two complex | 10/04/2021 | 17/04/2021 |  |  |

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|  | numbers using constructor  overloading. |  |  |  |  |
| 10 | Write a program to generate a Fibonacci series using copy  constructor. | 10/04/2021 | 17/04/2021 |  |  |
| 11 | Write a program to find the biggest of three numbers  using friend function. | 17/04/2021 | 24/04/2021 |  |  |
| 12 | Write a program to find the greatest of two given numbers in two different  classes using friend function. | 17/04/2021 | 24/04/2021 |  |  |
| 13 | Write a program to find the sum of two numbers declared in a class and display the numbers and  sum using friend function. | 17/04/2021 | 24/04/2021 |  |  |
| 14 | Create a base class basic\_info with data members name , roll no , sex  , and two member functions getdata and display . Derive a class physical\_fit from basic\_info which has data members height and weight and member functions getdata and display . Display all the information using  object of derived class. | 24/04/2021 | 01/05/2021 |  |  |
| 15 | Design three classes STUDENT , EXAM , and  RESULT . The STUDENT class has data members such as roll no , name . Create a class EXAM by inheriting the STUDENT class . The EXAM class adds data members representing the marks scored in six subjects . Derive the RESULT from the EXAM class and has its own data members such as total marks  . Write a program to model this relationship. | 24/04/2021 | 01/05/2021 |  |  |
| 16 | Create class first with data members book no , book name and member function getdata and putdata . Create a class second with data members author name ,  publisher and members | 01/05/2021 | 08/05/2021 |  |  |

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|  | getdata and showdata .  Derive a class third from first and second with data members no of pages and year of publication . Display all these information using array of objects of third  class. |  |  |  |  |
| 17 | Write a program to overload unary increment (++)  operator . | 01/05/2021 | 08/05/2021 |  |  |
| 18 | Write a program to overload  binary + operator . | 08/05/2021 | 15/05/2021 |  |  |
| 19 | Write a program to overload  less than (<) operator . | 08/05/2021 | 15/05/2021 |  |  |
| 20 | Write a program to define the function template for swapping two items of the various data types such as integer , float , and  characters . | 15/05/2021 | 22/05/2021 |  |  |
| 21 | Write a program to define the function template for calculating the square of given numbers with different  data types . | 15/05/2021 | 22/05/2021 |  |  |
| 22 | Write a program to illustrate how template functions can  be overloaded . | 22/05/2021 | 29/05/2021 |  |  |
| 23 | Write a program to illustrate  that how class templates works. | 22/05/2021 | 29/05/2021 |  |  |
| 24 | Write a program to implement class templates  with multiple parameters. | 29/05/2021 | 05/06/2021 |  |  |
| 25 | Write a program to show try block throwing an exception  using exception handling. | 29/05/2021 | 05/06/2021 |  |  |
| 26 | Write a program to show invoking function that generates exception using  exception handling. | 05/06/2021 | 12/06/2021 |  |  |
| 27 | Write a program to perform operations on vectors using  iterators. | 05/06/2021 | 12/06/2021 |  |  |
| 28 | Write a program to perform  various operations in vectors. | 12/06/2021 | 19/06/2021 |  |  |
| 29 | Write a program to write data in the file using  ofstream class. | 12/06/2021 | 19/06/2021 |  |  |

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| 30 | Write a program to read data from file using ifstream  class. | 19/06/2021 | 26/06/2021 |  |  |
| 31 | Write a program to append a  data file using file handling. | 19/06/2021 | 26/06/2021 |  |  |
| 32 | Write a program to display a  string using C++ . | 26/06/2021 | 26/06/2021 |  |  |
| 33 | Write a program to perform various operations on strings  using functions. | 26/06/2021 | 26/06/2021 |  |  |
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