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| **S. No.** | **Topic** | **Date** | **Signature** |
| 1. | WAP to declare a class power and raise a number n to a power p. Use a default argument of 2 for p. |  |  |
| 2. | WAP that uses a class called point to model a point. Then display the value, equal to the sum of the two points. |  |  |
| 3. | WAP that uses a class rectangle with variables length and breadth and calculates it's perimeter and area. |  |  |
| 4. | WAP that uses a class to store three parts of a phone number (Area Code, Exchange Number, Phone Number) separately. Initialize one, and have the user input for the other one and display both the numbers. |  |  |
| 5. | WAP to create two classes DM and DB which store the value of distances in metres and centimetres and in feet and inches and add both the distances and shows the result in both formats. |  |  |
| 6. | WAP to create a class Time consisting of member variables hour, minute, second and implement the concept of operator overloading for the following operations : a+b, a-b, a++, a--, ++a, --a, a>b, a<b, a+=b, a-=b. |  |  |
| 7. | WAP to display the order of execution of constructors and destructors in base class and derived class. |  |  |
| 8. | WAP to implement multiple inheritance and discuss the accessibility of public, protected and private members of base class, within derived class and through the objects of derived class. |  |  |
| 9. | WAP to create two classes DM and DB which store the value of distances in metres and centimetres and in feet and inches and add both the distances using a friend function. |  |  |
| 10. | WAP to show the concept of Exception Handling on an array Stack using ‘try’, ‘catch’ and ‘throw’ on underflow and overflow conditions. |  |  |
| 11. | WAP to show the working of virtual functions and abstract classes, override the virtual functions of a normal base class and abstract base class. |  |  |
| 12. | WAP to show the concept of function overloading in virtual functions using a shape class and deriving the class in rectangle, square and triangle classes. |  |  |
| 13. | WAP to calculate the absolute value of integer or floating point number using a function template. |  |  |
| 14. | WAP to search an element in array of integer, character or floating point number using a function template with multiple arguments. |  |  |
| 15. | WAP to represent a class for stack to store both integer and floating point numbers separately using class templates and perform the operations of the stack. |  |  |
| 16. | WAP to create a linked list to stores double and char type data separately using class templates and perform the operations on the linked list. |  |  |
| 17. | WAP to create a class calculator that has two numbers and an operator as it's member variables and then carries out the specified arithmetic operation. |  |  |
| 18. | WAP to declare a class Employee, inherit Employee into class Manager, inherit Manager into another class Executive and implement these classes for taking details and displaying them. |  |  |
| 19. | WAP to create a class Toll Booth with two data items, one to store the no. of cars and other to store the money collected and three member functions, paycar(), nopaycar() and display(). |  |  |