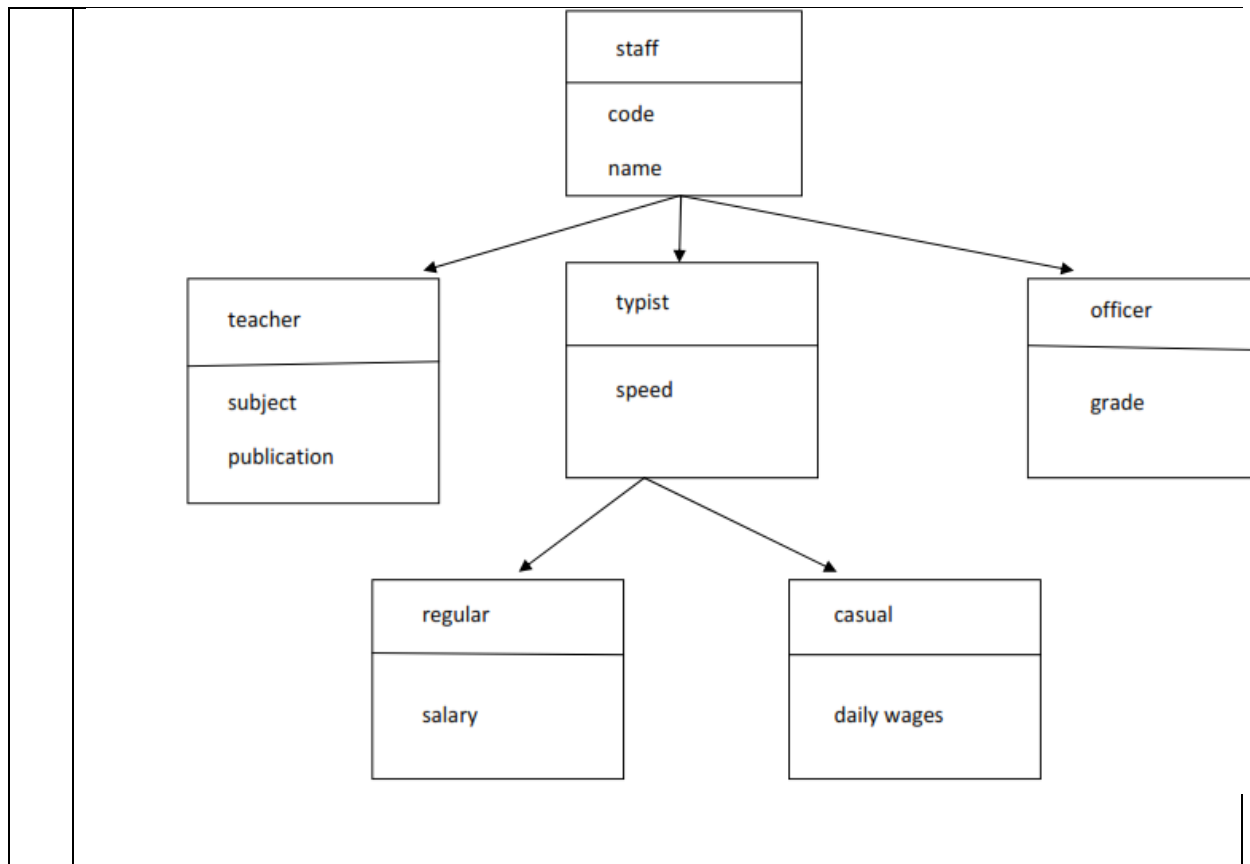


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| 1. | Write a Java Program to calculate area and perimeter of the circle and triangle using multilevel inheritance |
| 2. | Write a Java Program to calculate gross salary of an employee. Read Employee's details as Name, BirthDate, Designation, Basic salary, number of leaves etc. Make use of try, catch, throws, throws and finally keywords |
| 3. | Write a Java Program for Hotel management system . It should include functions for customer registration, room booking, payment , cancellation etc. Write various constructors and methods to support the same |
| 4. | Write a Java Program to find number of uppercase and lowercase characters , blank spaces , digits and special characters from input string. |
| 5. | Write a Java program to perform division of two numbers accepted from the user. Handle the IOException, NumberFormatException and ArithmeticException using multiple try, catch blocks |
| 6. | Write applets to draw a human face(smiley face) |
| 7. | Develop an applet that receives three numbers from the user and then displays the larger of the three on the screen. Write a HTML page and test the applet. |
| 8. | Write a program that has two threads . One of the threads displays the elements of Fibonacci series upto 100 while the other displays even numbers upto 30. |
| 9. | Write a program that has two threads . One of the threads displays the even numbers 30 while the other displays odd numbers upto 30. |
| 10 | Consider the class network given. The class 'Admin' derives information from the class 'Account' which in turn derives information from 'Persons' class. write a program to display Admin object. |

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| | <pre> classDiagram class Person { Name Code } class Account { Pay } class Admin { Exp } Person < -- Account Person < -- Admin </pre> |
| 11 | <p>Assume that a bank maintains two kinds of accounts for its customers. The saving account provides compound interest and withdrawal facilities but no cheque book facility . The current account provides cheque book facility but no interest. Current account holders should also maintain a minimum balance and if the balance falls below this level a service charge is imposed. Create a class account that stores customer name, account number and type of account. From this derive the classes current_acct and savings_acct to make them more specific to their requirements include the necessary methods in order to achieve the following tasks:</p> <ol style="list-style-type: none"> 1. Accept deposit from a customer and update the balance 2. Display the balance 3. Compute the deposit interest 4 Permit withdrawal and update the balance 5 Check the minimum balance, impose penalty if necessary and update the balance. |
| 12 | <p>Write a program to define the following inheritance relationship</p> |



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| 13 | Write a Java method to count all vowels in a string. |
| 14 | Write a Java method to count all words in a string |
| 15 | <p>Imagine a publishing company that markets both book and audio cassettes. Create a class publication that stores the title and price of a publication. From this class derive two classes book, which adds the page count and tape which adds the playing time in minutes. Each of these three classes should have a getdata() function to get its data and putdata() function to display the data.</p> <p>Write a main() program to test the book and tape classes by creating instances of them , asking the user to fill in their data with getdata() and then displaying the data with putdata().</p> |
| 16 | Write a Program to compute area of a Rectangle and Square by using abstract class |
| 17 | Write a program to generate Fibonacci series using constructor. |
| 18 | Define a class Distance . The class stores distances in feet and inches. Create two objects of the class Distance and add them. |
| 19 | Define a class Time . It stores the time in hours and minutes . Create two objects of Time and find the difference in time between two objects using member functions |
| 20 | Define a class Time . It stores the time in hours and minutes . Create two objects of Time and find the difference in time between two objects using constructor |
| 21 | Write a program to check whether the given string is palindrome |
| 22 | Write a program that sorts the array and returns minimum and maximum of the array |
| 23 | Write a program to sort the array in ascending and descending order |
| 24 | Write a program to concatenate two strings without using string function. |
| 25 | Write a program that reads an array of numbers ,calculates and displays the row and column total and displays grand total. |

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| 26 | Write a program to add and subtract two matrices. |
| 27 | Write a program to delete an element in an array |
| 28 | Write a program to transpose a matrix |
| 29 | Write a program to swap contents of two arrays |
| 30 | To write a java program to print the Armstrong numbers |
| 31 | To write a java program that creates a string object and initializes it with your name and performs the following operations a)To find the length of the string object using appropriate String method. b)To find whether the character 'a' is present in the string. If yes find the number of times 'a' appear in the name and the location where it appears |
| 32 | To write a java program to display total marks of 5 students using student class. Given the following attributes: Regno(int), Name(string), Marks in subjects(Integer Array), Total (int). |
| 33 | To write a program in java with a class Rectangle with the data fields width, length, area and colour. The length, width and area are of double type and colour is of string type. The methods are get_length(), get_width(), get_colour() and find_area(). Create two objects of Rectangle and compare their area and colour. If the area and colour both are the same for the objects then display "Matching Rectangles", otherwise display " Non-matching Rectangle". |
| 34 | . To write a java program to define a class that represent Complex numbers with constructor to enable an object of this class to be initialized when it is declared and a default constructor when no argument is provided and define methods to do the following by passing objects as arguments a)Addition of two Complex numbers b)Subtraction of two Complex numbers c)Printing the Complex numbers in the form (a, b). |
| 35 | To write a java program to create a Player class and inherit three classes Cricket_Player, Football_Palyer and Hockey_Player. |
| 36 | To write a java program to create a package for Book details giving Book name, Author name, price and year of publishing. |
| 37 | To write a java program to create our exception subclass that throws exception if the sum of two integers is greater than 99. |
| 38 | Write a Program to define a class Complex to represent a complex number and perform addition and subtraction operations on complex numbers . Pass objects as argument. |
| 39 | Write a program to search an element in an array. |
| 40 | Write a program to determine the greater of the two numbers using method overloading |
| 41 | Write a program to check whether the matrix is symmetric or not. |
| 42 | Write a program to print string representation of the number. |