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| No. | Date | Practical Name | Page | Grade | Signature |
|-------|------|--|------|-------|-----------|
| - 10• | 2410 | List of Experiments: | | Grade | Signature |
| | 23-6 | Write a program to convert rupees to dollar. 60 rupees=1 dollar. | | | |
| 1 | 23-6 | Write a program that calculates percentage marks of the student if | | | |
| | | marks of 6 subjects are given. | | | |
| | 23-6 | Write a program to enter two numbers and perform mathematical | | | |
| 2 | | operations on them. | | | |
| 2 | 23-6 | Write a program to find length of string and print second half of | | | |
| | | the string. | | | |
| | 30-6 | Write a program to accept a line and check how many consonants | | | |
| 3 | | and vowels are there in line. | | | |
| 3 | 30-6 | Write a program to count the number of words that start with | | | |
| | | capital letters. | | | |
| | 7-7 | Write a program to find that given number or string is palindrome | | | |
| | | or not. | | | |
| 4 | 7-7 | Create a class which asks the user to enter a sentence, and it | | | |
| | | should display count of each vowel type in the sentence. The | | | |
| | | program should continue till user enters a word "quit". Display the total count of each vowel for all sentences. | | | |
| | 7-7 | | | | |
| | /-/ | Write an interactive program to print a string entered in a pyramid form. For instance, the string "stream" has to be displayed as | | | |
| | | follows: | | | |
| | | S | | | |
| | | St | | | |
| | | Str | | | |
| | | Stre | | | |
| | | Strea | | | |
| 5 | | Stream | | | |
| | 7-7 | Write an interactive program to print a diamond shape. For | | | |
| | | example, if user enters the number 3, the diamond will be as | | | |
| | | follows: | | | |
| | | * * | | | |
| | | *** | | | |
| | | * * | | | |
| | | * | | | |
| | 14-7 | Create one Abstract Class Shape that has two variables for | | | |
| | | dimensions and one Abstract method called area(). Create two | | | |
| 6 | | subclass Rectangle and Triangle of Shape class and find the area | | | |
| | | of Rectangle and Triangle. Create appropriate Constructors for | | | |
| | | data. | | | |
| | | data. | | | |
| 7 | 21-7 | WAP to demonstrate concept of different type of access modifiers | | | |
| 7 | | using Package. | | | |
| | 28-7 | The transport interface declares a deliver() method. The abstract | | | |
| 8 | | class Animal is the super class of the Tiger, Camel, Deer and | | | |
| | | Donkey classes. The Transport interface is implemented by the | | | |

| | | Camel and Donkey classes. Write a test program that initialize an | | |
|----|------------|--|--|--|
| | | array of four Animal objects. If the object implements the Transport interface, the deliver() method is invoked. | | |
| 9 | 4-8 | Write a program that generates custom exception if any integer value given from its command line arguments is negative. | | |
| 10 | 11-8 | Write a program to create two threads, one thread will print odd numbers and second thread will print even numbers between 1 to 20 numbers | | |
| 11 | 18-8 | Create a class called Student. Write a student manager program to manipulate the student information from files by using FileInputStream and FileOutputStream | | |
| | 18-8 | Refine the student manager program to manipulate the student information from files by using the BufferedReader and BufferedWriter. | | |
| 12 | 25-8 | Refine the student manager program to manipulate the student information from files by using the DataInputStream and DataOutputStream. Assume suitable data. | | |
| 13 | 1-9 | Categorize the following relationships into generalization, aggregation or association. [A] A country has a capital city. [B] A dining philosopher uses a fork. [C] A file is an ordinary file or a directory file. [D] Files contains records. [E] A polygon is composed of an ordered set of points. [F] A drawing object is text, a geometrical object, or a group. [G] A person uses a computer language on a object. [H] Modems and keyboards are input/output devices. [I] Classes may have several attributes. [J] A person plays for a team in a certain year. [K] A route connects two cities. [L] A student takes a course from a professor. | | |
| 14 | 1-9 1-9 | Prepare a state diagram for an interactive diagram editor for selecting and dragging objects. Prepare a use case diagram and sequence diagram for a computer email system. | | |
| 15 | 8-9 | Prepare an activity diagram for computing a restaurant bill, there should be charge for each delivered item. The total amount should be subject to tax and service charge of 18% for group of 6 and more. For smaller groups there should be a blank entry. Any coupons or gift certificates submitted by the customer should be subtracted. | | |
| 16 | 8-9 | Prepare a sequence diagram for issuing a book in the library management system. | | |
| 1 | | Design based Problems (DP)/Open Ended Problem: Remove duplicate lines from a large text or given document. | | |