

employee detail and employee's dependent details

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EXERCISE QUESTIONS:

- Write pseudocode to enter the numbers till the user wants and at the end it should display the count of positive, negative and zeros entered.
- Write pseudocode to find the octal equivalent of the entered number.
- Write pseudocode to find the range of a set of numbers. Range is the difference between the smallest and biggest number in the list.
- Write pseudocode to print all prime numbers from 1 to 300. (Hint: Use nested loops, break and continue)

• Write pseudocode to read the total number of electricity units consumed by the consumer . The tariff plan for the bill is as follows

Unit Rate/Unit(Rs.)
$$<=100 \ 1.00$$

$$> 100 \ \text{and} < = 200 \ 2.50$$

$$> 200 \ \text{and} < = 400 \ 3.00$$

$$> 400 \ 4.10$$

- calculate the total bill, the consumer has to pay?
- Write pseudocode to read three numbers and find out the largest among them?
- Write pseudocode to read a number and find out all the odd prime factors of a given number?
- Write pseudocode find out all the prime number between 100 and 200
- Write pseudocode to read a number and check if it is auto morphic or not. If it is automorphic display a proper message on the screen.(A number when multiplied by it self, the resultant number contains

the last digits of the original number)

Example
$$(5)^2 = 25$$

$$(6)^2 =$$

36

$$(25)^2 =$$

625

- Write pseudocode to read an integer number and find out the reverse of the digits? Example: Number = 1234 result is = 4321
- Write pseudocode to read an integer number and find out the sum of its digits?
- Write pseudocode to read 10 integer numbers from the keyboard and find out the sum and average of all the entered numbers
- Write pseudocode to add first "n" terms of the following series, where n is to be taken from the user: $1/1! + 2/2! + 3/3! + \dots$
- Write pseudocode to find the sum of the following series

$$S = 1 + x + x^2 + x^3 + x^4 + \dots + x^n$$

- Write pseudocode to read two numbers X and Y and find out X^{Y} . (Do not use built in library function)
- Write pseudocode to print the following series: 1,2,3,4,5,6,7,...10000
- Write pseudocode to print the following series: 2,4,6,8,10...10000
- Write pseudocode to print the following series: 1,3,5,7,9...999
- Write pseudocode to print the following series: 1,5,9,13....999
- Write pseudocode to print the following series: 1,4,9,16....100
- Write pseudocode to print the following series: 1,8,27,64...1000

- Write pseudocode that takes two positive integer numbers from the user and prints all the odd numbers between the two including those limits provided these satisfy the odd-number's criteria.
- Print the series: 9, 16, 21, 24, 25, 24 (Hint: 10-12,20-22,30-32=n*10-n2).
- Print the series: 0,1,1,2,3,5,8,13,21,34,55.
- Input two numbers and check if first is divisible by second.
- In a company if an employee is paid as under:
 - If his basic salary is less than Rs. 1500 then HRA = 10% of basic salary and DA = 90% of basic
 Salary
 - If his basic salary = or > 1500 then HRA = 500 and DA = 98% or basic salary

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Page 4 of 7 - If the basic salary is input by the user calculate the gross salary of the employ

- Calculate the factorial value of user input number by using looping
- Write a function to read three numbers from the keyboard and find out the largest from them?
- Print the following pattern

123451234512345

• Write a program to print the following pattern

$$1_{12}123123412345$$

• Write pseudocode to print the following pattern

• Write pseudocode to print the following pattern

$$1_{10}10110101010101$$

• Write pseudocode to print the following pattern

$$1_{\ 0\ 1}\ 1\ 0\ 1\ 0\ 1\ 0\ 1\ 0\ 1$$

• Write pseudocode to print the following pattern

$$1_{12221}3$$

• Write pseudocode to print the following pattern

• Write pseudocode to print the following pattern

$$1_{121}1232$$
 11234321
 12345432

• Write pseudocode to print the following pattern

```
1 <sub>2 3 4</sub> 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20
21 22 23 24 25
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• Write pseudocode to print the following pattern

• Write pseudocode to print the following pattern

$$\begin{smallmatrix}1&&&&1&2&1&2&3\\1&2&3&4&1&2\\3&4&5&1&2&3\\&&&4&5&6\end{smallmatrix}$$

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• Write pseudocode to print the following pattern

• Write pseudocode to print the following pattern

• Write pseudocode to print the following pattern

• Print following pattern using nested loops. Attempt all the three parts (a, b and c):

Part (a) ****

*

*

*

7

Part

(c)

Part

(c)

***** **** *** **

***** **** *** **

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• Print following pattern using nested loops

Part

(a)

* * * * * * * * * * * * * * *

(b) * * * * * * * * * * * * * * * * *