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**PROGRAM/SECTION** : BDS1B

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**QUESTION NO 01**

Design a flowchart, Pseudocode , Algorithm for processing a customer order at a restaurant,

including handling special requests (Like add on).

Go to the kitchen and ask the cook to bake the given order

START

pack the order

INPUT:

Ask the customer for order

Give the customer his order or serve on the table

Note down the order

In the note book

Ask to add cart

Stop

If NO

If yes

Add to cart

**PSEUDOCORD**

START

INPUT

ORDER

PROCESS STEP

WRITE THE ORDER IN THE NOTE BOOK ASK TO ADD CART

CONDITIONAL STATEMENT

IF YES

ADD TO CART

IF NO

TAKE THE GIVEN ORDER

PROCESS STEP

BAKE THE FOOD AND PACK IT

OUTPUT

GIVE CUSTOMER HIS OR HER ORDER

END

**ALGORITHM :**

STEP 1 Ask the customer to order.

STEP 2 Note down the order given by the customer.

STEP 3 Ask the customer to add cart.

STEP 4 If he or she wants to order more add to cart else proceed.

Step 5 Go to the kitchen.

STEP 5 Ask the cook to bake the given order.

STEP 6 When the food gets cooked pack it.

STEP 7 Give customer his or her order.

**QUESTION NO 2**

Write Pseudocode and Algorithm for handling a customer's deposit transaction at a

bank, including checks for account validity and deposit amount conditions.

**PSEUDOCODE**

Start

INPUT CREDIT

INPUT 500 RUPPEES

CHECK IF 500 RUPEES ARE DEPOSITED

IF PRESENT

PRINT VALIDITY

PRINT AMOUNT PRESENT

THEN

SEND MESSAGE TO CUSTOMER VIA EMAIL

IF

NOT RECEIVED ANY TRANSACTION

PRINT

CHECK ACCOUNT INFORMATION

INPUT FILLED CHECK

PROCESS INFORMATION

IF CORRECT

OUTPUT AMOUNT

17 IF INCORRECT

18 PRINT CHECK INFORMATION

19 END

**ALGORITHM**

STEP 01 Take check from the customer.

STEP 02 Check information wrtten in the check.

STEP 03 If the information is correct give the payment.

STEP 04 If wrong return the check and no amount for a wrong check.

STEP 05 Ask the customer to check the information and try again.

SREP 06 If he or she wants to add amount in his bank account he can simply add by giving his account number and the amount he wants to add or through banking app.

**QUESTION NO 03**

Design a flowchart, Pseudocode, Algorithm to determine which of three provided numbers is the

greatest.

**PSEUDOCODE**

START

INPUT NUMBER1=X

INPUT NUMBER2=Y

INPUT NUMBER3=Z

PROCESS

X>Y OR X>Z OR Z>XORZ>X OR Y>XORY>Z

PRINT

GREATER NUMBER

END

**ALGORITHM**

STEP 01 Input the numbers.

STEP 02 Check the numbers for greater one.

STEP 03 Check X>YORX>Z OR Z>XORZ>X OR Y>XORY>Z.

STEP 04 Write the greatest number.

STEP 05 STOP

**QUESTION N0 04**

Implement an ALGORITHM where the user enters a number, and an appropriate month is

displayed.

**ALGORITHM**

STEP 1 Write the name of months in sequence from 1 to 12.

STEP 2 If 1 is entered show January .

If 2 is entered print feburary .

If 3 is entered print March.

If 4 is entered print April .

If 5 is entered print May .

If 6 is entered print June .

If 7 is entered print July.

If 8 is entered print august.

If 9 is entered print september.

If 10 is entered print 0ctober.

If 11 is entered print November .

If 12 is entered print December.

STEP 3 Display answer .

STEP 4 STOP .

**QUESTION NO 05**

Create pseudocode a small calculator which only does ‘+’ or ‘-‘Operations. (Hint: Take three

variable inputs with one being used for the operator)

**PSEUDOCORD**

START

INPUT number1

INPUT number2

INPUT OPERATOR

+ OR –

Process Steps

IF OPERATOR = +

SUM NUMBER1 AND NUMBER2 = ANSWER

ELSE IF 0PERATOR = -

FIND DIFFERENCE BETWEEN NUMBER1 AND NUMBERr2 = ANSWER

PRINT

ANSWER

STOP

**ALGORITHM**

STEP 01 Start .

STEP 02 Take any two numbers as input.

STEP 03 Write the operator to be used .

STEP 04 Write working formula for the given operator .

Number1 + Number2 = result

OR

Number1 - Number2 = result

STEP 05 Perform the function addition or subtraction .

STEP 06 Print your answer .

STEP 07 Stop .

**QUESTION NO 6**

FIT ALL THE INTERIOR INCLUDING FLOOR MAAT SEAT COVERS DASH BOARD ETC

ASSEMBLE ALL THE BODY AND STRUCTURAL PARTS

TO FORM A CAR SHAPE

You are working at Toyota Indus Motors and want to assemble a car. Design a flowchart with

proper process modules and decision structures to replicate a pipeline production.

Input

Interior and exterior parts

Start

Process

Assemble the exterior boby and the structure

INPUT

Engine,tyres and all other machinery including computers

Assemble all the exterior and interior parts

Decide the coloue scheme

Paint the car

Take a test drive check all the computers and other machinery

If working properly

Else go to step 1

Stop

**QUESTION NO 7**

**Implement an algorithm for making a simple calculator with all the operators (+,-,\*,/,%).**

**ALGORITHM**

STEP 1 Construct the basic structure/body of the calculator.

STEP 2 Start programming the main processor chip for addition , subtraction , multiplication , division and percentage .

STEP 3 For addition (number1 + number2).

STEP 4 For subtraction (number1 - number2).

STEP 5 For multiplication (number1\*number2).

STEP 6 For division (number1/number2).

STEP 7 For percentage (number1 % number2).

STEP 8 Install screen , buttons , battery with the processing chip.

STEP 9 Assemble the calculator.

STEP 10 Check wheather the calculator is giving right answers or not.

**QUESTION NO 8**

Create your repository with your roll number being your repo name, Upload the algorithms and

pseudo codes in your repository, Create a small intro about yourself in the readme file with

pictures and bullet points.

**QUESTION NO 9**

Why we use gitignore?

ANSWER : Gitignore is used in the repository to avoid or ignore the files which are unnecessary to the project these files and are automatically created by the system .When ever an error is commited by the user it is stored in this file (error.log) so gitignore is used to avoid the posting of such error files .

**QUESTION NO 10**

**Difference between Algorithm and Pseudocode?**

**ALGORITHM PSEUDOCODE**

**ALGORITHM PSEUDOCODE**

1-Algorithm is detailed step by step solution to a 1- Pseudocode is way to express Algorithm in a

Problem. Short form.

2-Alogorithm is written is sentences . 2- In Pseudocode conditions are used such IF ,

ELSE , ENDIF , THEN are used.

1. It is easy to understand . 3-It is difficult to understant compare to

Algorithm