Subject: Programming and Problem-Solving

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ASSIGNMENT NO: 2-B

AIM: Write algorithm and draw flowchart to convert given decimal number to binary

OBJECTIVE:

1. To understand importance of flowchart for any programming model.

2. To learn simple flowchart symbols and arrows to define relationships.

3. To understand and develop visual representations of flow of data.

4. To learn and understand the conversion of Decimal to Binary

THEORY:

1)Flowchart to convert given decimal number to binary

2)Algorithm to convert given decimal number to binary

3) Decimal to binary in C

4) Decimal Number

5) Binary Number

6) Pseudocode

Flowchart to convert given Decimal number to Binary

START

INPUT NUMBER IN

DECIMAL FORM

DIVIDE THE NUMBER BY 2

DISPLAY BINARY

NUMBER

STOP

CALCULATE THE REMAINDER AND

DEVIDE QUOTIENT BY 2 TILL

REMAINDER BECOMES ZERO

CREATING BINARY NUMBER WHILE

ARRANGING THE REMINDERS FROM

BOTTOM TO UP

Algorithm to convert given decimal number to binary

Step1) Start

Step2) Input number in Decimal form

Step3) Divide the Number by 2

Step4) Calculate the reminder and divide the quotient by 2 till remainder becomes zero

Step5) Creating Binary number while arranging the reminders from bottom to up

Step6) Display binary number

Step7) Stop

PLATFORM: 64 –bit Windows 10.

INPUT: Give any Decimal Number

OUTPUT: Binary Number

CONCLUSION: Thus we have learnt how to convert Decimal number into Binary with

its algorithm and flowchart.