19EE404 Digital Electronics

Topic:

Number System conversions

Overview of the Topic

There are **three conversions possible for binary number**, i.e., binary to decimal, binary to octal, and binary to hexadecimal. The conversion process of a binary number to decimal differs from the remaining others.

Teaching Method

Flipped class and video lecture followed by Quiz

Proof for the activity

https://youtu.be/AcIpQjOxlV0

https://youtu.be/tACxXoyyKLQ

Feedback from the students about the activity and Knowledge gained

Students felt easy about those conversions and quiz was conducted based on those conversion systems. Students scored good marks

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1	--------- is the building block of electronic circuit --------- is the building block of electronic circuit	🔍	1.00
2	1's complement of 11100110 is .... 1's complement of 11100110 is	🔍	1.00
3	Convert (0.6875)10 to binary Convert (0.6875)10 to binary	🔍	1.00
4	Convert hexadecimal value 16 to decimal. Convert hexadecimal value 16 to decimal.	🔍	1.00
5	Convert the following binary number to decimal.010112 Convert the following binary number to decimal.010112	🔍	1.00
6	Decimal number 10 is equal to binary number .... Decimal number 10 is equal to binary number	🔍	1.00
7	Express the boolean function F=A+B'C as Sum of minterms Express the boolean function F=A+B'C as Sum of minterms	🔍	1.00
8	For the SOP expression AB'C+A'BC+ABC'. How many 1s are in the truth table's ... For the SOP expression AB'C+A'BC+ABC'. How many 1s are in the truth table's output?	🔍	1.00
9	onvert the following binary number into gray code 10110110 onvert the following binary number into gray code 10110110	🔍	1.00
10	Simplify Y = A'BC+ABC Simplify Y = A'BC+ABC	🔍	1.00

First name / Surname	Email address	State	Started on	Completed	Time taken	Grade/15.00	Q.1 /1.00	Q.2 /1.00	Q.3 /1.00	Q.4 /1.00	Q.5 /1.00	Q.6 /1.00	Q.7 /1.00	Q.8 /1.00	Q.9 /1.00	Q.10 /1.00
SANDHYA CHARU N 20005083 Review attempt	sandhyacharu23@gmail.com	Finished	8 May 2021 12:03 PM	8 May 2021 12:12 PM	8 mins 46 secs	10.00	✔ 1.00	✔ 1.00	✔ 1.00	✔ 1.00	✔ 1.00	✔ 1.00	✖ 0.00	✔ 1.00	✖ 0.00	✔ 1.0
SANDHYA CHARU N 20005083 Review attempt		Finished	8 May 2021 12:13 PM	8 May 2021 12:30 PM	16 mins 27 secs	13.00	✔ 1.00	✔ 1.00	✔ 1.00	✔ 1.00	✔ 1.00	✔ 1.00	✔ 1.00	✔ 1.00	✔ 1.00	✔ 1.0
BENCY SHARON S 212220050006 Review attempt	benzysharon09@gmail.com	Finished	9 May 2021 7:18 AM	9 May 2021 7:24 AM	5 mins 41 secs	8.00	✔ 1.00	✔ 1.00	✖ 0.00	✖ 0.00	✖ 0.00	✔ 1.00	✖ 0.00	✔ 1.00	✖ 0.00	✔ 1.0
SWETHA.K.P 212220230053 Review attempt	kpswethasweety6767@gmail.com	Finished	9 May 2021 7:49 AM	9 May 2021 2:00 PM	6 hours 10 mins	0.00	✖ -	✖ -	✖ -	✖ -	✖ -	✖ -	✖ -	✖ -	✖ -	✖ -
VEERAPALLI JANITH CHOWDARY 212220230057 Review attempt	janith2219@gmail.com	Finished	9 May 2021 9:44 AM	9 May 2021 9:49 AM	4 mins 51 secs	5.00	✔ 1.00	✖ 0.00	✖ 0.00	✖ 0.00	✖ 0.00	✔ 1.00	✖ 0.00	✔ 1.00	✖ 0.00	✖ 0.0
KUMARAVEL V 212220230027 Review attempt	kumaravelkuma07@gmail.com	Finished	9 May 2021 10:17 AM	9 May 2021 10:21 AM	4 mins 17 secs	6.00	✖ 0.00	✔ 1.00	✔ 1.00	✖ 0.00	✖ 0.00	✖ 0.00	✔ 1.00	✔ 1.00	✖ 0.00	✖ 0.0
Venkatesh 212220230018 Review attempt	venky.ganapathi009@gmail.com	Finished	9 May 2021 10:27 AM	9 May 2021 10:47 AM	20 mins 26 secs	11.00	✖ 0.00	✔ 1.00	✔ 1.00	✔ 1.00	✔ 1.00	✔ 1.00	✖ 0.00	✔ 1.00	✖ 0.00	✖ 0.0

Outcome of the activity

Students are able to solve different types of number conversions