Academic Session 2020-21

Home Assignment- I

Subject: Computer Science

Class: VIII

Based on Chapter-2 Number System – An Introduction (of your Computer Textbook)

Watch the following Link and complete the Assignment based on it

Link for Conversion of Binary number to decimal

https://www.youtube.com/watch?v=4M6L-ubixJo

1. Convert the binary number 110010 to decimal number. [3]
2. Convert the binary number 101010 to decimal number. [3]
3. Convert the binary number 00111 to decimal number. [2]
4. Convert the binary number 01011 to decimal number. [2]
5. Convert the binary number 10100 to decimal number. [2]
6. Convert the binary number 11011 to decimal number. [2]
7. Convert the binary number 10011011 to decimal number. [5]
8. Showing your work convert these binary numbers to decimal. [2x4=8]
   (a) 11111_2
   (b) 11000_2
   (c) 11011_2
   (d) 1111_2

Link for Conversion of Decimal number to Binary

https://www.youtube.com/watch?v=VRNc6uyHhys

Showing your work convert the following decimal values to binary

9. Convert the decimal numbers 18 and 27 to binary numbers. [2+2=4]
10. Convert the decimal number 106 to binary number. [3]
11. Convert 17 and 14 into equivalent binary values. [2+2=4]
12. Convert the number 1010_2 into decimal and then verify. That is, reconvert the resultant decimal number into binary and check if the result matches with 1010_2. [5]
13. Convert the decimal number 2020 into binary and then reconvert the resultant binary number into decimal and check if the result matches with 2020. [5]
14. What is the binary equivalent value for 5_{10} [1]
15. The decimal equivalent of binary 10_2 is 2_{10} True/False [1]

#StayHome #StaySafe