

# 34 Lecture - CS501

## Important Subjective

1. **What is a number system?**

Answer: A number system is a way of representing numerical values using symbols or digits.

**What is radix conversion?**

Answer: Radix conversion is the process of converting a number from one number system to another.

**What is the decimal equivalent of the binary number 1101?**

Answer: The decimal equivalent of the binary number 1101 is 13.

**What is the binary equivalent of the decimal number 25?**

Answer: The binary equivalent of the decimal number 25 is 11001.

**What is the octal equivalent of the binary number 101101?**

Answer: The octal equivalent of the binary number 101101 is 55.

**What is the hexadecimal equivalent of the binary number 111001?**

Answer: The hexadecimal equivalent of the binary number 111001 is 39.

**What is the decimal equivalent of the octal number 75?**

Answer: The decimal equivalent of the octal number 75 is 61.

**What is the octal equivalent of the decimal number 83?**

Answer: The octal equivalent of the decimal number 83 is 123.

**What is the binary equivalent of the hexadecimal number 2F?**

Answer: The binary equivalent of the hexadecimal number 2F is 101111.

**What is the hexadecimal equivalent of the octal number 67?**

Answer: The hexadecimal equivalent of the octal number 67 is 2F.