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Q1)We did the miltiple sequence alignment (MSA) using the clustal tool

Q2)We did the phylogenies UPGMA and NJ using the MEGA tool

Q3)we will provided pdf of both tree of upgma and NJ

Q4) [**cellular organisms**](https://www.uniprot.org/taxonomy/131567) > [**Eukaryota (eucaryotes)**](https://www.uniprot.org/taxonomy/2759) > [**Opisthokonta**](https://www.uniprot.org/taxonomy/33154) > [**Metazoa (metazoans)**](https://www.uniprot.org/taxonomy/33208) > [**Eumetazoa**](https://www.uniprot.org/taxonomy/6072) > [**Bilateria**](https://www.uniprot.org/taxonomy/33213) > [**Deuterostomia**](https://www.uniprot.org/taxonomy/33511) > [**Chordata (chordates)**](https://www.uniprot.org/taxonomy/7711) > [**Craniata**](https://www.uniprot.org/taxonomy/89593) > [**Vertebrata (vertebrates)**](https://www.uniprot.org/taxonomy/7742) > [**Gnathostomata (jawed vertebrates)**](https://www.uniprot.org/taxonomy/7776) > [**Teleostomi**](https://www.uniprot.org/taxonomy/117570) > [**Euteleostomi (bony vertebrates)**](https://www.uniprot.org/taxonomy/117571) > [**Sarcopterygii**](https://www.uniprot.org/taxonomy/8287) > [**Dipnotetrapodomorpha**](https://www.uniprot.org/taxonomy/1338369) > [**Tetrapoda (tetrapods)**](https://www.uniprot.org/taxonomy/32523) > [**Amniota (amniotes)**](https://www.uniprot.org/taxonomy/32524) > [**Mammalia (mammals)**](https://www.uniprot.org/taxonomy/40674) > [**Theria**](https://www.uniprot.org/taxonomy/32525) > [**Eutheria (placentals)**](https://www.uniprot.org/taxonomy/9347) > [**Boreoeutheria**](https://www.uniprot.org/taxonomy/1437010) > [**Laurasiatheria**](https://www.uniprot.org/taxonomy/314145) > [**Artiodactyla (whales, hippos, ruminants, pigs, camels etc.)**](https://www.uniprot.org/taxonomy/91561) > [**Ruminantia**](https://www.uniprot.org/taxonomy/9845) > [**Pecora**](https://www.uniprot.org/taxonomy/35500) > [**Bovidae**](https://www.uniprot.org/taxonomy/9895) > [**Bovinae**](https://www.uniprot.org/taxonomy/27592) > [**Bos**](https://www.uniprot.org/taxonomy/9903) and this simailiar to the one in the ncbi taxonomy database

Q5)

Q10) all rectangular nodes are orthologous and paralogous there would be many possibilities if there are a node like this A blue and white diagram

Description automatically generatedas show in pic blow

A screenshot of a computer

Description automatically generated

