

## **Objective**

The assignment has been designed to develop the understanding of IPv6 and UDP.

## **Instructions:**

**Please read the following instructions carefully before solving & submitting assignment:**  
**Assignment should be in your own wordings not copied from internet, handouts or books.**  
**It should be clear that your assignment will not get any credit (zero marks) if:**

- **The assignment is submitted after due date.**
- **The submitted assignment does not open or file is corrupt.**
- **The assignment not submitted in MS Word file format.**
- **The assignment is copied (from other student or copied from handouts or internet).**
- **Student ID is not mentioned in the assignment file or name of file is other than student ID.**

**For any query about the assignment, contact at [CS610@vu.edu.pk](mailto:CS610@vu.edu.pk)**

**GOOD LUCK**

**Q.1. Why does IPv6 use separate extension headers instead of fields in a single, fixed header? [5 Marks]**

**Q.2. What endpoint values must be specified by an application that engages in 1-to-1 communication? In 1-to-many? In many-to-1? [5 Marks]**

**Q.3. Calculate the size of the largest possible UDP message. (Hint: the entire UDP message must fit in an IP datagram.) [5 Marks]**