

# Assignment # 1

BSE 5<sup>th</sup>A

## Operating System

**Deadline: 10<sup>th</sup> Oct 2023**

**Q#1:** How do clustered systems differ from multiprocessor systems? What is required for two machines belonging to a cluster to cooperate to provide a highly available service?

**Q#2:** Describe some of the challenges of designing operating systems for mobile devices compared with designing operating systems for traditional PCs.

**Q#3:** Identify several advantages and several disadvantages of open-source operating systems. Include the types of people who would find each aspect to be an advantage or a disadvantage.

**Q#4:** List five services provided by an operating system and explain how each creates convenience for users. In which cases would it be impossible for user-level programs to provide these services? Explain your answer.

**Q#5:** How are iOS and Android similar? How are they different?

### **Note:**

**Submit both hardcopy and soft copy of the assignment.**

**Assignments submitted after the deadline will not be accepted.**

**Copied assignments will be marked zero.**

**AI generated assignments will be marked zero.**