

# 10 Lecture - CS401

## Important Mcqs

### 1. What is a debugger?

- a) A hardware device used to interrupt program execution
- b) A software tool used to identify and fix errors in programs
- c) A programming language

Answer: b

### What is a single step interrupt?

- a) A hardware device used to interrupt program execution
- b) A software tool used to identify and fix errors in programs
- c) A debugging technique that allows programs to be executed one instruction at a time

Answer: c

### What is the purpose of a single step interrupt?

- a) To execute a program faster
- b) To examine the state of the system after each instruction
- c) To skip over sections of code

Answer: b

### What is the advantage of using a single step interrupt?

- a) It allows developers to execute a program faster
- b) It allows developers to examine the state of the system after each instruction
- c) It allows developers to skip over sections of code

Answer: b

### How does a debugger work?

- a) By interrupting program execution
- b) By executing programs one instruction at a time
- c) By examining the state of the system after each instruction

Answer: c

### Which debugging technique allows programs to be executed one instruction at a time?

- a) Single step interrupt
- b) Breakpoint
- c) Watchpoint

Answer: a

### What is the purpose of a breakpoint?

- a) To execute a program faster
- b) To examine the state of the system after each instruction
- c) To pause program execution at a specific point in the code

Answer: c

### What is a watchpoint?

- a) A hardware device used to interrupt program execution

b) A software tool used to identify and fix errors in programs

c) A debugging technique that pauses program execution when a specific memory location is accessed

**Answer: c**

**Which debugging technique pauses program execution at a specific point in the code?**

a) Single step interrupt

b) Breakpoint

c) Watchpoint

**Answer: b**

**What is the main advantage of using a debugger?**

a) It allows developers to execute programs faster

b) It allows developers to identify and fix errors in their programs

c) It allows developers to skip over sections of code

**Answer: b**