

# 3 Lecture - CS401

## Important Mcqs

1. Which operator is used to check for equality in programming languages?

- a) =
- b) ==
- c) ===
- d) !=

Answer: b) ==

Which of the following is a relational operator?

- a) !
- b) ||
- c) &&
- d) >

Answer: d) >

What is the result of the following comparison in Python: `5 > 3`?

- a) True
- b) False
- c) Syntax Error
- d) None of the above

Answer: a) True

Which of the following is not a logical operator?

- a) !
- b) ||
- c) <=
- d) &&

Answer: c) <=

What is the output of the following code:

```
arduino
Copy code
int a = 5;
if (a < 10) {
    printf("a is less than 10");
}
```

- a) a is less than 10
- b) a is greater than 10
- c) a is equal to 10
- d) Compilation Error

Answer: a) a is less than 10

What is the output of the following code:

```
CSS
```

Copy code

```
int a = 10;  
if (a > 5 && a < 15) {  
    printf("a is between 5 and 15");  
}
```

- a) a is between 5 and 15
- b) a is less than 5
- c) a is greater than 15
- d) Compilation Error

**Answer: a) a is between 5 and 15**

**Which of the following control structures is used to execute code based on multiple conditions?**

- a) if-else
- b) switch-case
- c) while
- d) for

**Answer: b) switch-case**

**Which of the following is the correct syntax for an if-else statement in C?**

- a) if (condition) {  
// code block  
} else {  
// code block  
}
- b) if (condition)  
// code block  
else  
// code block
- c) if (condition)  
// code block  
else {  
// code block  
}
- d) if (condition) {  
// code block  
} else  
// code block

**Answer: a) if (condition) {**

```
// code block  
} else {  
// code block  
}
```

**What is the output of the following code:**

css

Copy code

```
int a = 5;  
int b = 3;  
if (a > b) {
```

```
printf("a is greater than b");  
} else {  
printf("a is less than or equal to b");  
}  
a) a is greater than b  
b) a is less than or equal to b  
c) a is equal to b  
d) Compilation Error
```

**Answer: a) a is greater than b**

**Which of the following operators is used to check for inequality?**

- a) !
- b) ==
- c) !=
- d) <>

**Answer: c) !=**