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) <> <mark>Answer: c) !=</mark>