

1- What is the expected output?

```
// www.gammal.tech
#include<stdio.h>

int main() {
    int x, y;

    printf("%d %d", x, y);

    return 0;
}
```

Solution

```
// www.gammal.tech

Mistake: Variables x and y are uninitialized, leading to undefined behavior. They may contain garbage values.
```

2- What is the expected output?

```
// www.gammal.tech
#include<stdio.h>

int main() {
    int result = 5 / 2;

    printf("%d", result);

    return 0;
}
```

Solution

2

3- What is the expected output?

```

// www.gammal.tech

#include<stdio.h>

int main() {
    int result = 5 / 2;

    printf("%d", result);

    return 0;
}
```

Solution

5 A

4- What is the expected output?

```

// www.gammal.tech

#include<stdio.h>

int main() {
    int i;

    for (; i <= 5; i++) {
        printf("%d\n", i);
    }

    return 0;
}
```

Solution



[// www.gammal.tech](http://www.gammal.tech)

Variable `i` is uninitialized, leading to unpredictable behavior in the loop. It should be initialized to `0`.

5- What is the expected output?



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```
#include<stdio.h>
```

```
void myFunction() {  
    int x = 10;  
}
```

```
int main() {  
    printf("%d", x); // Scope issue  
  
    return 0;  
}
```

Solution



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Variable `x` is declared in the scope of `myFunction`, and it's not accessible in `main`.

6- What is the expected output?

```
// www.gammal.tech

#include<stdio.h>

int main() {
    int x = 5;
    int y = 10;

    if (x > y);
    {
        printf("x is greater than y\n");
    }

    return 0;
}
```

Solution

```
x is greater than y
```

7- What is the expected output?

```
// www.gammal.tech

#include<stdio.h>

int main() {
    int x = 5;

    if (x = 10) {
        printf("x is equal to 10\n");
    }

    return 0;
}
```

Solution

```
x is equal to 10
```

Explanation



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Using the assignment operator (=) instead of the equality operator (==) in the if statement.

8- What is the expected output?



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```
#include<stdio.h>
```

```
int main() {  
    printf("Hello\n");  
    return 0;  
    printf("This code is unreachable\n");  
}
```

Output

Hello

Explanation



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The code after `return 0;` is unreachable, as the function has already returned.

9- What is the expected output?

```
// www.gammal.tech

#include<stdio.h>

int main() {
    char str1[] = "Hello";
    char str2[] = "World";

    if (str1 == str2) {
        printf("Strings are equal\n");
    } else {
        printf("Strings are not equal\n");
    }

    return 0;
}
```

Solution

```
Strings are not equal
```

10- What is the expected output?

```
// www.gammal.tech

#include<stdio.h>

int main() {
    int arr[-5]; // Incorrect array declaration with negative size

    printf("Array created successfully\n");

    return 0;
}
```

Solution

```
// www.gammal.tech

Declaring an array with a negative size, which is not allowed.
```