**Variable Initialization**

Example 1: Guess the Output

# Guess the output

a = 5

b = 10

print(a + b)

Example 2: Identify the Error

# Identify the error

x = 10

y = 20

print(x + y)

print(z)

**Printing Variable Values**

Example 3: Guess the Output

# Guess the output

name = "Alice"

age = 25

print(name)

print(age)

Example 4: Identify the Error

# Identify the error

city = "New York"

print("City: " city)

**Printing Text and Variable Value**

Example 5: Guess the Output

# Guess the output

item = "Laptop"

price = 999.99

print("The price of the", item, "is $", price)

Example 6: Identify the Error

# Identify the error

temperature = 22.5

print("The temperature is " temperature " degrees Celsius")

**Comments**

Example 7: Guess the Output

# Guess the output

# This is a comment

# print("Hello, World!")

print("Goodbye, World!")

Example 8: Identify the Error

# Identify the error

# This is a comment

print("This is not a comment")

# This is another comment

print("This is also not a comment)

**Arithmetic Operations**

Example 9: Guess the Output

# Guess the output

a = 15

b = 4

print(a // b)

print(a % b)

Example 10: Identify the Error

# Identify the error

x = 10

y = 0

print(x / y)

Input Function

Example 11: Guess the Output

# Guess the output

name = input("Enter your name: ")

print("Hello, " + name + "!")

Example 12: Identify the Error

# Identify the error

age = input("Enter your age: ")

print("You are " + age + " years old")

Example 13: Guess the Output

# Guess the output

a = 5

b = 3

result = a \*\* b

print("The result is:", result)

Example 14: Identify the Error

# Identify the error

length = 7

width = 4

area = length \* width

print("The area of the rectangle is " area)

Example 15: Guess the Output

# Guess the output

num1 = 8

num2 = 2

print("Sum:", num1 + num2)

print("Difference:", num1 - num2)

print("Product:", num1 \* num2)

print("Quotient:", num1 / num2)

Example 16: Identify the Error

# Identify the error

text = " is fun"

print(text + !)

Example 17: Guess the Output

# Guess the output

x = 25

y = 5

z = x % y

print("The remainder is:", z)

Example 18: Identify the Error

# Identify the error

message = "Welcome to programming"

print("Message: " message)

Example 19: Guess the Output

# Guess the output

value = input("Enter a number: ")

print("You entered:", value)

Example 20: Identify the Error

# Identify the error

x = 10

y = 5

result = x + y

print("The sum of x and y is: " + result)