

MCA 100 Mixed Questions: Python & Java (Easy, Intermediate, Hard)

Q1 (Python - Easy): What is the output of `print(2 * 3 ** 2)`?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (`**`) has higher precedence than multiplication.

Q2 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q3 (Python - Easy): What data type is the result of: `3 / 2` in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q4 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q5 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q6 (Java - Easy): Which of these is used to create an object in Java?

- a) allocate
- b) new
- c) malloc
- d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.

Q7 (Python - Easy): What data type is the result of: $3 / 2$ in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q8 (Python - Easy): What is the output of `print(2 * 3 ** 2)`?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (**) has higher precedence than multiplication.

Q9 (Python - Easy): What data type is the result of: $3 / 2$ in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q10 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q11 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q12 (Java - Easy): Which of these is used to create an object in Java?

- a) allocate
- b) new
- c) malloc
- d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.

Q13 (Python - Easy): What data type is the result of: 3 / 2 in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q14 (Python - Easy): What is the output of print(2 * 3 ** 2)?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (**) has higher precedence than multiplication.

Q15 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q16 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q17 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q18 (Java - Easy): Which of these is used to create an object in Java?

- a) allocate
- b) new
- c) malloc
- d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.

Q19 (Python - Easy): What is the output of `print(2 * 3 ** 2)`?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (`**`) has higher precedence than multiplication.

Q20 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q21 (Python - Easy): What data type is the result of: `3 / 2` in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q22 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q23 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q24 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q25 (Java - Easy): Which of these is used to create an object in Java?

- a) allocate
- b) new
- c) malloc
- d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.

Q26 (Python - Easy): What data type is the result of: $3 / 2$ in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q27 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q28 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q29 (Python - Easy): What is the output of `print(2 * 3 ** 2)`?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (**) has higher precedence than multiplication.

Q30 (Java - Easy): Which of these is used to create an object in Java?

- a) allocate
- b) new
- c) malloc
- d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.

Q31 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q32 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q33 (Python - Easy): What is the output of `print(2 * 3 ** 2)`?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (`**`) has higher precedence than multiplication.

Q34 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q35 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q36 (Java - Easy): Which of these is used to create an object in Java?

- a) allocate
- b) new
- c) malloc
- d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.

Q37 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q38 (Python - Easy): What is the output of `print(2 * 3 ** 2)`?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (**) has higher precedence than multiplication.

Q39 (Python - Easy): What is the output of `print(2 * 3 ** 2)`?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (**) has higher precedence than multiplication.

Q40 (Java - Easy): Which of these is used to create an object in Java?

- a) allocate
- b) new
- c) malloc
- d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.

Q41 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q42 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q43 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q44 (Java - Easy): Which of these is used to create an object in Java?

- a) allocate
- b) new
- c) malloc
- d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.

Q45 (Python - Easy): What data type is the result of: $3 / 2$ in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q46 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q47 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q48 (Python - Easy): What data type is the result of: 3 / 2 in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q49 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q50 (Python - Easy): What data type is the result of: 3 / 2 in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q51 (Python - Easy): What is the output of `print(2 * 3 ** 2)`?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (`**`) has higher precedence than multiplication.

Q52 (Java - Easy): Which of these is used to create an object in Java?

- a) allocate
- b) new
- c) malloc
- d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.

Q53 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q54 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q55 (Python - Easy): What data type is the result of: $3 / 2$ in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q56 (Java - Easy): Which of these is used to create an object in Java?

- a) allocate
- b) new
- c) malloc
- d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.

Q57 (Python - Easy): What data type is the result of: $3 / 2$ in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q58 (Python - Easy): What data type is the result of: $3 / 2$ in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q59 (Java - Easy): Which of these is used to create an object in Java?

- a) allocate
- b) new
- c) malloc
- d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.

Q60 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q61 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q62 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q63 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q64 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q65 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q66 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q67 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q68 (Python - Easy): What is the output of `print(2 * 3 ** 2)`?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (**) has higher precedence than multiplication.

Q69 (Python - Easy): What data type is the result of: 3 / 2 in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q70 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q71 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q72 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q73 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q74 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q75 (Python - Easy): What data type is the result of: $3 / 2$ in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q76 (Python - Easy): What is the output of `print(2 * 3 ** 2)`?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (**) has higher precedence than multiplication.

Q77 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q78 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q79 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q80 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q81 (Java - Easy): Which of these is used to create an object in Java?

- a) allocate
- b) new
- c) malloc
- d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.

Q82 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q83 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q84 (Python - Easy): What is the output of `print(2 * 3 ** 2)`?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (**) has higher precedence than multiplication.

Q85 (Python - Easy): What is the output of `print(2 * 3 ** 2)`?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (**) has higher precedence than multiplication.

Q86 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q87 (Java - Easy): Which of these is used to create an object in Java?

- a) allocate
- b) new
- c) malloc
- d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.

Q88 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q89 (Java - Easy): Which of the following is not a Java keyword?

- a) static
- b) Boolean
- c) void
- d) private

Answer: b) Boolean

Explanation: In Java, `boolean` is lowercase; `Boolean` is a class.

Q90 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q91 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q92 (Python - Easy): What is the output of `print(2 * 3 ** 2)`?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (`**`) has higher precedence than multiplication.

Q93 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q94 (Python - Easy): What is the output of `print(2 * 3 ** 2)`?

- a) 36
- b) 18
- c) 12
- d) 9

Answer: b) 18

Explanation: Exponentiation (`**`) has higher precedence than multiplication.

Q95 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q96 (Python - Easy): Which keyword is used to define a function in Python?

- a) function
- b) def
- c) func
- d) define

Answer: b) def

Explanation: `def` is the correct keyword to define functions in Python.

Q97 (Python - Easy): What data type is the result of: $3 / 2$ in Python 3?

- a) int
- b) float
- c) double
- d) long

Answer: b) float

Explanation: In Python 3, division `/` always returns a float.

Q98 (Java - Easy): Which of these is used to create an object in Java?

- a) allocate
- b) new
- c) malloc
- d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.

Q99 (Java - Easy): What is the default value of a boolean variable in Java?

- a) true
- b) false
- c) 0
- d) null

Answer: b) false

Explanation: Boolean defaults to `false` if not explicitly initialized.

Q100 (Java - Easy): Which of these is used to create an object in Java?

a) allocate

b) new

c) malloc

d) alloc

Answer: b) new

Explanation: `new` keyword allocates memory for a new object.