* Develop logic to check whether the input value is an integer or not.
* Develop logic to check whether an integer is even or odd.
* Check if the string is palindrome or not.
* Ternary Operator or single like if else
* Exercise - Conditionals

1. What is the syntax for checking whether a value is an integer in Python?

a. isinstance(value, int)

b. type(value) == 'int'

c. type(value) == int

d. isint(value)

Answer: c. type(value) == int

1. What is the output of the following code snippet?

| num = 7 if num % 2 == 0:  print("Even") else:  print("Odd") |
| --- |

a. Even

b. Odd

c. 7

d. None of the above

Answer: b. Odd

1. What is the output of the following code snippet?

| string = "racecar" if string == string[::-1]:  print("Palindrome") else:  print("Not a palindrome") |
| --- |

a. Palindrome

b. Not a palindrome

c. racecar[::-1]

d. None of the above

Answer: a. Palindrome

1. What is the syntax for a ternary operator in Python?

a. if-else statement

b. if-elif-else statement

c. (expression\_if\_true) if (condition) else (expression\_if\_false)

d. (condition) if (expression\_if\_true) else (expression\_if\_false)

Answer: c. (expression\_if\_true) if (condition) else (expression\_if\_false)

1. What is the output of the following code snippet?

| x = 5 result = "Even" if x % 2 == 0 else "Odd" print(result) |
| --- |

a. Even

b. Odd

c. 5

d. None of the above

Answer: b. Odd

1. What is the output of the following code snippet?

| x = 5 result = (x \* 2) if x > 3 else (x \* 3) print(result) |
| --- |

a. 6

b. 10

c. 15

d. 25

Answer: b. 10

1. What is the output of the following code snippet?

| num1 = 4 num2 = 6 if num1 > num2:  print(num1) elif num1 < num2:  print(num2) else:  print("Equal") |
| --- |

a. 4

b. 6

c. Equal

d. None of the above

Answer: b. 6

1. What is the output of the following code snippet?

| num1 = 3 num2 = 3 result = num1 == num2 print(result) |
| --- |

a. True

b. False

c. num1 == num2

d. None of the above

Answer: a. True

1. What is the output of the following code snippet?

| num = 3 if num > 0:  print("Positive") elif num < 0:  print("Negative") else:  print("Zero") |
| --- |

a. Positive

b. Negative

c. Zero

d. None of the above

Answer: a. Positive

1. What is the output of the following code snippet?

| num = "7" if isinstance(num, int):  print("Integer") else:  print("Not an integer") |
| --- |

a. Integer

b. Not an integer

c. 7

d. None of the above

Answer: b. Not an integer