# Python Conditional statements

## If Else Statement

### Task: 1

num = int(input("Enter a number: "))

if num % 2 == 0:

print(f"{num} is even")

else:

print(f"{num} is odd")

### Task: 2

num = int(input("Enter a number: "))

if num % 5 == 0:

print(f"{num} is divisible by 5")

else:

print(f"{num} is not divisible by 5")

### Task: 3

password = "admin123"

if password == "admin123":

print("Access Granted")

else:

print("Access Denied")

### Task: 4

age = int(input("Enter your age: "))

if age >= 18:

print(f"{age} is eligible")

else:

print(f"{age} is not eligible")

### Task: 5

num = int(input("Enter a number: "))

if num > 0:

print(f"{num} is positive")

else:

print(f"{num} is negative")

## ELif Statement

### Task: 1

marks = int(input("Enter your marks: "))

if marks >= 90:

print("Grade A")

elif marks >= 75:

print("Grade B")

elif marks >= 50:

print("Grade C")

else:

print("Fail")

### Task: 2

light = input("Enter the light color: ")

if light == "Red":

print("Stop")

elif light == "Yellow":

print("Slow Down")

elif light == "Green":

print("Go")

else:

print("Invalid Color")

### Task: 3

temp = float(input("Enter the temperature: "))

if temp > 30:

print("Hot")

elif temp >= 15:

print("Warm")

elif temp >= 0:

print("Cold")

else:

print("Freezing")

### Task: 4

day = int(input("Enter a day: "))

if day == 1:

print("Monday")

elif day == 2:

print("Tuesday")

elif day == 3:

print("Wednesday")

elif day == 4:

print("Thursday")

elif day == 5:

print("Friday")

elif day == 6:

print("Saturday")

elif day == 7:

print("Sunday")

else:

print("Invalid")

### Task: 5

a, b, c = int(input("Enter three numbers: ").split())

a, b, c = int(a), int(b), int(c)

if a >= b and a >= c:

print(f"Largest is {a}")

elif b >= a and b >= c:

print(f"Largest is {b}")

else:

print(f"Largest is {c}")

## ternary Statement

### Task: 1

age = int(input("Enter your age: "))

print(f"{age} is eligible" if age >= 18 else f"{age} is not eligible")

### Task: 2

num = int(input("Enter a number: "))

print(f"{num} is Positive" if num > 0 else f"{num} is Negative")

### Task: 3

password = "admin123"

print("Access Granted" if password == "admin123" else "Access Denied")

### Task: 4

num = int(input("Enter a number:"))

print("Divisible by 5" if num % 5 == 0 else "Not Divisible by 5")

### Task: 5

num = int(input("Enter a number:"))

print("Even" if num % 2 == 0 else "Odd")

## Match Cases

### Task: 1

day = int(input("Enter a day:"))

match day:

case 1: print("Monday")

case 2: print("Tuesday")

case 3: print("Wednesday")

case 4: print("Thursday")

case 5: print("Friday")

case 6: print("Saturday")

case 7: print("Sunday")

case \_: print("Invalid")

### Task: 2

temp = int(input("Enter the Num: "))

match temp:

case t if t > 30:

print("Hot")

case t if t >= 15:

print("Warm")

case t if t >= 0:

print("Cold")

case \_:

print("Freezing")

### Task: 3

x, y, z = input("Enter three numbers: ").split()

x, y, z = int(x), int(y), int(z)

match (x, y, z):

case (x, y, z) if x >= y and x >= z:

print(f"Largest is {x}")

case (x, y, z) if y >= x and y >= z:

print(f"Largest is {y}")

case (x, y, z):

print(f"Largest is {z}")

### Task: 4

light = input("Enter the light color: ")

match light:

case "Red": print("Stop")

case "Yellow": print("Slow Down")

case "Green": print("Go")

case \_: print("Invalid Color")

### Task: 5

marks = int(input("Enter the marks:"))

match marks:

case m if m >= 90:

print("Grade A")

case m if m >= 75:

print("Grade B")

case m if m >= 50:

print("Grade C")

case \_:

print("Fail")