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Section: B

Subject: Programming Language

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programming.py >
      name = "Igra"
       print("My name is:", name)
      print("Sum:", a + b)
      num2 = 7.5
      print("Type of num1:", type(num1))
      print("Type of num2:", type(num2))
      greeting = "Hello, Python"
      print("Length of string:", len(greeting))
      print("Square of x:", x ** 2)
      user_input = input("Enter something: ")
print("Data type of input:", type(user_input))
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
My name is: Igra
Sum: 15
Type of num1: <class 'int'>
Type of num2: <class 'float'>
Length of string: 13
Square of x: 36
Enter something: hi
Data type of input: <class 'str'>
PS C:\Users\zaina\.vscode\flower>
programming.py >
       is_active = True
       print("Is active True?", is_active == True)
       name="iqra"
       age = 19
       print(f"My name is {name} and I am {age} years old.")
       print("Converted to float:", x)
       complex_num = 4 + 3j
print("Real part:", complex_num.real)
       print("Imaginary part:", complex_num.imag)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\zaina\.vscode\flower> & C:\Users\zaina\.vscode\flower\programs/Python/Python313/python.exe c:\Users\zaina\.vscode\flower\programsing.py
Is active True? True
My name is igra and I am 19 years old.
Converted to float: 10.0
Real part: 4.0
Imaginary part: 3.0
PS C:\Users\zaina\.vscode\flower>
 programming.py > ...
        print("Addition:", a + b)
        print("Subtraction:", a - b)
print("Multiplication:", a * b)
        print("Division:", a / b)
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print("Floor Division:", a // b)
       print("Remainder:", a % b)
       print("Power:", a ** b)
       a=8
       b=6
       print("a > b:", a > b)
print("a < b:", a < b)
print("a == b:", a == b)</pre>
       print("a != b:", a != b)
                                        TERMINAL
Division: 3.0
Floor Division: 3
Remainder: 0
Power: 20736
a > b: True
a < b: False
a == b: False
a != b: True
PS C:\Users\zaina\.vscode\flower>
programming.py > ...
     a=12
     b=4
      print("a > b:", a > b)
print("a < b:", a < b)
print("a == b:", a == b)</pre>
       print("a != b:", a != b)
      print("a > 5 and b < 10:", a > 5 and b < 10)
print("a > 20 or b < 10:", a > 20 or b < 10)
print("not(a > b):", not (a > b))
       print("Operator precedence result:", result)
       num += 5
       print("After += :", num)
       num -= 3
       print("After -= :", num)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\zaina\.vscode\flower> & C:\Users\zaina/AppData/Local/Programs/Python/Python313/python.exe c:\Users\zaina/.vscode\flower\programming.py
a < b: False
a == b: False
a != b: True
a > 5 and b < 10: True
a > 20 or b < 10: True
not(a > b): False
Operator precedence result: 17
After += : 15
After -= : 12
PS C:\Users\zaina\.vscode\flower>
programming.py > ...
      num = int(input("Enter a number: "))
       print("Even" if num % 2 == 0 else "Odd")
       num = int(input("Enter a number: "))
       if num > 0:
           print("Positive")
       elif num < 0:
          print("Negative")
         print("Zero")
       num = int(input("Enter a number: "))
```

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if num % 2 == 0:
          print("Even Number")
          print("Odd Number")
                                TERMINAL
PS C:\Users\zaina\.vscode\flower> & C:\Users\zaina/AppData/Local/Programs/Python/Python313/python.exe c:\Users\zaina/.vscode\flower\programming.py
Enter a number: 7
Odd
Enter a number: 6
Positive
Enter a number: 5
Odd Number
PS C:\Users\zaina\.vscode\flower>
programming.py > .
      age = int(input("Enter your age: "))
      if age >= 18:
          print("You are an adult.")
          print("You are a minor.")
          print("Largest number is:", a)
          print("Largest number is:", b)
          print("Largest number is:", c)
      marks = int(input("Enter your marks: "))
      if marks >= 90:
          grade = "A"
      elif marks >= 80:
          grade = "B"
      elif marks >= 70:
          grade = "C
      elif marks >= 60:
         grade = "D"
                                TERMINAL
PS C:\Users\zaina\.vscode\flower> & C:\Users\zaina/AppData\Local/Programs/Python/Python313/python.exe c:\Users\zaina\.vscode\flower/programming.py
Enter your age: 19
You are an adult.
Largest number is: 25
Enter your marks: 16
Your grade is: F
PS C:\Users\zaina\.vscode\flower>
print("Warm")
          print("Cold")
      password = input("Enter password: ")
      if password == "python123":
         print("Access Granted")
          print("Access Denied")
      ch = input("Enter a character: ").lower()
         print("Vowel")
          print("Consonant")
```

```
PS C:\Users\zaina\.vscode\flower> & C:\Users\zaina/AppOata/Local/Programs/Python/Python313/python.exe c:\Users\zaina\.vscode\flower/programming.py
Enter a year: 2006
Not a Leap Year
Enter temperature: 8
Enter password: igra
Access Denied
Enter a character: b
Consonant
PS C:\Users\zaina\.vscode\flower>
      day_num = int(input("Enter day number (1-7): "))
      days = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday"]
       if 1 <= day_num <= 7:
          print("Day is:", days[day_num - 1])
          print("Invalid number")
      fruits = ["apple", "banana", "mango", "orange"]
      print("Fruits:", fruits)
      fruits.append("grape")
       fruits.remove("banana")
      numbers = [10, 20, 30, 40, 50]
      print("Sum of numbers:", sum(numbers))
 19
PS C:\Users\zaina\.vscode\flower> & C:\Users\zaina\.popata/Local/Programs/Python/Python313/python.exe c:\Users\zaina\.vscode\flower/programming.py
Enter day number (1-7): 6
Day is: Saturday
Fruits: ['apple', 'banana', 'mango', 'orange']
After adding grape: ['apple', 'banana', 'mango', 'orange', 'grape']
After removing banana: ['apple', 'mango', 'orange', 'grape']
PS C:\Users\zaina\.vscode\flower>
programming.py > ...
       numbers = [12, 45, 23, 89, 56, 10]
       print("Maximum element:", max(numbers))
       print("Minimum element:", min(numbers))
       print("First three elements:", numbers[:3])
       print("Last three elements:", numbers[-3:])
       numbers[2] = 100 # replace element at index 2
       print("After replacing index 2:", numbers)
       numbers.reverse() # you can also use numbers[::-1]
       print("Reversed list:", numbers)
       count_list = [1, 2, 2, 3, 2, 4, 5, 2]
       print("Count of 2 in list:", count_list.count(2))
       list1 = ["apple", "banana", "mango"]
list2 = ["orange", "grape", "cherry"]
combined_list = list1 + list2
       print("Combined list:", combined_list)
       squares = [x**2 for x in range(1, 11)]
       print("List of squares (1-10):", squares)
       my_tuple = (10, 20, 30, 40, 50)
       print("Tuple elements:", my_tuple)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Minimum element: 10
First three elements: [12, 45, 23]
Last three elements: [89, 56, 10]
```