```
Celebal Assignment 2 > introduction-to-set.py > ...

def average(array):
    s = set(array)
    total = sum(s)
    length = len(s)
    return float(total / length)

arr = list(map(int, input("Enter space-separated integers: ").split()))

print(average(arr))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code

PS C:\Users\grahu\Desktop\My Codes> cd "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2"

PS C:\Users\grahu\Desktop\My Codes> cd "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2 python -u "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2\introduction-to-set.py"

Enter space-separated integers: 161 182 161 154 176 170 167 171 170 174

169.375
```

PS C:\Users\grahu\Desktop\My Codes\Celebal Assignment 2>

```
🕏 text-wrap.py 🗙
Celebal Assignment 2 > 🕏 text-wrap.py > ...
       import textwrap
       def wrap(string, max_width):
            result = '
            for i in range(0, len(string), max_width):
                line = string[i:i+max_width]
                if i + max_width >= len(string):
                     result += line
                     result += line + '\n'
            return result
       string = input("Enter the string: ")
max_width = int(input("Enter max width: "))
       print(wrap(string, max_width))
                                     TERMINAL
PS C:\Users\grahu\Desktop\My \ Codes\ cd \ "c:\Users\grahu\Desktop\My \ Codes\Celebal \ Assignment \ 2"
PS C:\Users\grahu\Desktop\My Codes\Celebal Assignment 2> python -u "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2\text-wrap.py"
Enter the string: ABCDEFGHIJKLIMNOQRSTUVWXYZ
Enter max width: 4
ABCD
EFGH
IJKL
IMNO
QRST
UVWX
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```

```
alphabet-rangoli.py X
Celebal Assignment 2 > 🏓 alphabet-rangoli.py > 🗘 print_rangoli
      def print_rangoli(size):
          width = 4 * size - 3
          pattern = []
          for i in range(size):
              left = alphabets[size-1:size-1-i:-1]
              right = alphabets[size-1-i:size]
              row = left + right
              line = '-'.join(row)
              pattern.append(line.center(width, '-'))
          for i in range(size-2, -1, -1):
              pattern.append(pattern[i])
          print('\n'.join(pattern))
      n = int(input("Enter the size of rangoli you want- "))
      print_rangoli(n)
                                                                                                                             ∑ Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\grahu\Desktop\My Codes> cd "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2"
PS C:\Users\grahu\Desktop\My Codes\Celebal Assignment 2> python -u "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2\alphabet-rangoli.py"
Enter the size of rangoli you want- 5
-----e-d-e-----
 ----e-d-c-d-e----
--e-d-c-b-c-d-e--
e-d-c-b-a-b-c-d-e
--e-d-c-b-c-d-e--
 ----e-d-c-d-e----
 ----e-d-e----
```

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```
merge-the-tools.py X
Celebal Assignment 2 > ♥ merge-the-tools.py > ...
       def merge_the_tools(string, k):
           n = len(string)
           for i in range(0, n, k):
               substring = string[i:i+k]
               for ch in substring:
                   if ch not in seen:
                       seen.add(ch)
                       result += ch
               print(result)
       input_string = input("Enter the string: ")
       segment_length = int(input("Enter the segment length (k): "))
       merge_the_tools(input_string, segment_length)
                                  TERMINAL
                                                                                                                                        ∑ Code -
PS C:\Users\grahu\Desktop\My Codes> cd "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2"
PS C:\Users\grahu\Desktop\My Codes\Celebal Assignment 2> python -u "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2\merge-the-tools.py"
Enter the string: AABCAAADA
Enter the segment length (k): 3
AB
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```
collections.Counter().py ×
Celebal Assignment 2 > 🕏 collections.Counter().py > ...
       total_shoes = int(input("Enter the total number of shoes- "))
       shoe_sizes_input = input("Emter the list of shoe sizes- ").split()
       shoe inventory = []
       for size in shoe sizes input:
           shoe_inventory.append(int(size))
      number_of_customers = int(input("Enter the number of customers- "))
       total_earnings = 0
       for _ in range(number_of_customers):
           size_requested, price_offered = map(int, input("Give the shoe size and the price- ").split())
           if size_requested in shoe_inventory:
               total earnings += price offered
               shoe_inventory.remove(size_requested)
      print(total_earnings)
                                  TERMINAL
                                                                                                                                        ∑ Code −
PS C:\Users\grahu\Desktop\My Codes> cd "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2"
PS C:\Users\grahu\Desktop\My Codes\Celebal Assignment 2> python -u "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2\collections.Counter().py"
Enter the total number of shoes- 10
Emter the list of shoe sizes- 2 3 4 5 6 8 7 6 5 18
Enter the number of customers- 6
Give the shoe size and the price- 6 55
Give the shoe size and the price- 6 45
Give the shoe size and the price- 6 55
Give the shoe size and the price- 4 40
Give the shoe size and the price- 18 60
Give the shoe size and the price- 10 50
200
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```

```
error-and-exceptions.py X
Celebal Assignment 2 > ♥ error-and-exceptions.py > ...
       t = int(input("Enter the number of test cases- "))
        for _ in range(t):
            print("Enter the value of A and B- ")
                 a, b = input().split()
                 result = int(a) // int(b)
                 print(result)
                 print("Error Code:", e)
                                      TERMINAL
                                                                                                                                                       ∑ Code
PS C:\Users\grahu\Desktop\My Codes> cd "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2"
PS C:\Users\grahu\Desktop\My Codes\Celebal Assignment 2> python -u "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2\end{assignment 2} python -u "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2\end{assignment 2}
Enter the number of test cases- 3
Enter the value of A and B-
10
Error Code: integer division or modulo by zero
Enter the value of A and B-
2 $
Error Code: invalid literal for int() with base 10: '$'
Enter the value of A and B-
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```
🕏 regex.py 🛛 🗙
Celebal Assignment 2 > 🕏 regex.py > ...
      def is_valid_regex(pattern):
           repeat_operators = {'*', '+', '?'}
           for i in range(1, len(pattern)):
               if pattern[i] in repeat_operators and pattern[i - 1] in repeat_operators and pattern[i - 1] != '\':
               if pattern[i] in repeat_operators and pattern[i - 1] == '\\':
           return True
      n = int(input("Enter the number of test cases- "))
       for _ in range(n):
           pattern = input("Enter the pattern- ")
          OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\grahu\Desktop\My Codes> cd "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2"
PS C:\Users\grahu\Desktop\My Codes\Celebal Assignment 2> python -u "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2\regex.py"
Enter the number of test cases- 2
Enter the pattern- .*\+
True
Enter the pattern- .*+
False
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```
Celebal Assignment 2 > 🕏 set-discard-remove-pop.py > ...
       number_of_elements = int(input("Input number of elements- "))
       initial set = set(map(int, input("Enter the numbers of the set- ").split()))
       number_of_commands = int(input("Number of commands- "))
       for _ in range(number_of_commands):
           command_parts = input().split()
           command = command_parts[0]
           if command == 'pop':
               initial set.pop()
           elif command == 'remove':
               initial_set.remove(int(command_parts[1]))
           elif command == 'discard':
               initial_set.discard(int(command_parts[1]))
       print(sum(initial_set))
           OUTPUT
                   DEBUG CONSOLE
                                  TERMINAL
PS C:\Users\grahu\Desktop\My Codes> cd "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2"
PS C:\Users\grahu\Desktop\My Codes\Celebal Assignment 2> python -u "c:\Users\grahu\Desktop\My Codes\Celebal Assignment 2\set-di
Input number of elements- 9
Enter the numbers of the set- 1 2 3 4 5 6 7 8 9
Number of commands- 10
pop
remove 9
discard 9
discard 8
remove 7
pop
discard 6
remove 5
pop
discard 5
PS C:\Users\grahu\Desktop\My Codes\Celebal Assignment 2>
```

set-discard-remove-pop.py X