

```
electricity.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a program that read the customer number & power consumed and prints the
3 # amount to be paid by the customer. Note that output should be well formatted.
4
5 cnum = int(input("Enter customer number: "))
6 power = float(input("Enter power consumed in units: "))
7 if (power <= 100):
8 |   amt = power*1.00
9 elif (power <= 300):
10 |   amt = 100+(power-100)*1.25
11 elif (power <= 500):
12 |   amt = 350+(power-300)*1.50
13 elif (power > 500):
14 |   amt = 650+(power-500)*1.75
15 else:
16 |   print("Invalid Entry!")
17 print("-----Electricity Bill-----")
18 print("Consumer Number: ", cnum)
19 print("Power Consumed: ", power)
20 print("Amount to be paid: ", amt)
21 print("-----")
22
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri python/electricity.py"
Enter customer number: 22186
Enter power consumed in units: 122
-----Electricity Bill-----
Consumer Number: 22186
Power Consumed: 122.0
Amount to be paid: 127.5
-----
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

```
largest.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a python program to find largest number among three numbers.
3
4 num1 = int(input("Enter the first number: "))
5 num2 = int(input("Enter the second number: "))
6 num3 = int(input("Enter the third number: "))
7 if num1 >= num2 and num1 >= num3:
8 |   print(num1, " is the largest.")
9 elif num2 >= num1 and num2 >= num3:
10 |   print(num2, " is the largest.")
11 else:
12 |   print(num3, " is the largest.")
13
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri python/largest.py"
Enter the first number: 22
Enter the second number: 24
Enter the third number: 26
26 is the largest.
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

```
add.py > ...
1  # Name: Dhanshri Supratkar USN No.: CS22186
2  # Develop the python programs.
3  # a) To add the two numbers.
4
5  num1 = int(input("Enter the first number: "))
6  num2 = int(input("Enter the second number: "))
7  print(f"The sum of {num1} and {num2} is: ", num1+num2)
8

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "C:/Users/dhans/OneDrive/Desktop/Dhanshri/add.py"
Enter the first number: 24
Enter the second number: 25
The sum of 24 and 25 is: 49
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

```
areacircle.py > ...
1  # Name: Dhanshri Supratkar USN No.: CS22186
2  # Develop the python programs.
3  # b) To find area of circle.
4
5  radius = float(input("Enter the radius of the circle: "))
6  area = 3.14 * radius**2
7  print(f"The area of a circle with radius {radius} is: ", area)
8

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Python + v

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "C:/Users/dhans/OneDrive/Desktop/Dhanshri/areacircle.py"
Enter the radius of the circle: 4
The area of a circle with radius 4.0 is: 50.24
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

```
eligible.py > ...
1  # Name: Dhanshri Supratkar  USN No.: CS22186
2  # You are provided with the age of the person. Write a program to check
3  # whether a person is eligible to do the voting in India or not.
4
5  age = int(input("Enter the age of the person: "))
6  if age >= 18:
7      | print("The person is eligible to vote in India.")
8  else:
9      | print("The person is not eligible to vote in India.")
10
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

Python + ▾ [ ] [ ] ... ^ X

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri python/eligible.py"

Enter the age of the person: 15

The person is not eligible to vote in India.

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> [ ]

```
evenodd.py > ...
1  # Name: Dhanshri Supratkar  USN No.: CS22186
2  # Write a program to find whether the entered number is even or odd.
3
4  num = int(input("Enter a number: "))
5  if (num % 2 == 0):
6      | print("The number is Even.")
7  else:
8      | print("The number is Odd.")
9
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

Python + ▾ [ ] [ ] ... ^ X

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri python/evenodd.py"

Enter a number: 22

The number is Even.

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> [ ]

```
circlecone.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a program to find the area of circle, circumference of circle,
3 # volume of cube, volume of cone.
4
5 radius_circle = float(input("Enter the radius of the circle: "))
6 area = 3.14 * radius_circle**2
7 circumference = 2 * 3.14 * radius_circle
8
9 side_cube = float(input("Enter the side length of the cube: "))
10 volume_cube = side_cube**3
11
12 radius_cone = float(input("Enter the radius of the cone: "))
13 height_cone = float(input("Enter the height of the cone: "))
14 volume_cone = (1/3) * 3.14 * radius_cone**2 * height_cone
15
16 print(f"\nArea of the circle: {area}")
17 print(f"Circumference of the circle: {circumference}")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Python + - [ ] [ ] ... ^ x

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri python/circlecone.py"
Enter the radius of the circle: 2
Enter the side length of the cube: 4
Enter the radius of the cone: 4
Enter the height of the cone: 6

Area of the circle: 12.56
Circumference of the circle: 12.56

Volume of the cube: 64.0

Volume of the cone: 100.47999999999999
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

```
numrev.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a program to take a number as input and give it in reverse order as output.
3 # Write a PYTHON program to reverse the given number.
4 # Reverse a given integer number.
5
6 n = int(input("Enter a number: "))
7 rev = 0
8 rem = n
9 while rem > 0:
10     digit = rem % 10
11     rev = rev * 10 + digit
12     rem = rem // 10
13 print(f"The reverse of {n} is: {rev}")
14

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Python + - [ ] [ ] ... ^ x

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri python/numrev.py"
Enter a number: 2024
The reverse of 2024 is: 4202
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

```
naturalnum.py > ...
1  # Name: Dhanshir Supratkar  USN No.: CS22186
2  # Write a PYTHON program to print the natural numbers up to n
3
4  n = int(input("Enter the value of n: "))
5  i = 1
6  print(f"Natural numbers up to {n}: ")
7  while i <= n:
8      print(i, end=" ")
9      i += 1
10
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:
hon/naturalnum.py"
Enter the value of n: 10
Natural numbers up to 10:
1 2 3 4 5 6 7 8 9 10
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

```
printeven.py > ...
1  # Name: Dhanshri Supratkar  USN No.: CS22186
2  # Write a PYTHON program to print even numbers up to n
3
4  n = int(input("Enter the value of n: "))
5  i = 2
6  print(f"Even numbers up to {n}:")
7  while i <= n:
8      print(i, end=" ")
9      i += 2
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.
hon/printeven.py"
Enter the value of n: 21
Even numbers up to 21:
2 4 6 8 10 12 14 16 18 20
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

```
printodd.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a PYTHON program to print odd numbers up to n.
3
4 n = int(input("Enter the value of n: "))
5 i = 1
6 print(f"Odd numbers up to {n}:")
7 while i <= n:
8     print(i, end=" ")
9     i += 2
10
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri/printodd.py"

Enter the value of n: 24

Odd numbers up to 24:

1 3 5 7 9 11 13 15 17 19 21 23

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |

```
naturalsum.py > ...
1 # Name:Dhanshri Supratkar USN No.: CS22186
2 # Write a PYTHON program to print sum of natural numbers up to n.
3 # Calculate the sum of all numbers from 1 to a given number.
4
5 n = int(input("Enter the value of n: "))
6 if n <= 0:
7     print("Please enter a positive integer.")
8 else:
9     sum, i = 0, 1
10    while i <= n:
11        sum = sum + i
12        i += 1
13    print(f"Sum of Natural numbers up to {n}:", sum)
14
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri/naturalsum.py"

Enter the value of n: 24

Sum of Natural numbers up to 24: 300

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |

```
oddsun.py > ...
1  # Name: Dhanshri Supratkar  USN No.: CS22186
2  # Write a PYTHON program to print sum of odd numbers up to n.
3
4  n = int(input("Enter the value of n: "))
5  if n <= 0:
6      print("Please enter a positive integer.")
7  else:
8      sum, i = 0, 1
9      while i <= n:
10         sum = sum + i
11         i += 2
12     print(f"Sum of Odd numbers up to {n}:", sum)
13
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3
hon/oddsun.py"
Enter the value of n: 20
Sum of Odd numbers up to 20: 100
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

```
evensun.py > ...
1  # Name: Dhanshri Supratkar  USN No.: CS22186
2  # Write a PYTHON program to print sum of even numbers up to n
3
4  n = int(input("Enter the value of n: "))
5  if n <= 0:
6      print("Please enter a positive integer.")
7  else:
8      sum, i = 0, 2
9      while i <= n:
10         sum = sum + i
11         i += 2
12     print(f"Sum of Even numbers up to {n}:", sum)
13
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3
hon/evensun.py"
Enter the value of n: 26
Sum of Even numbers up to 26: 182
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

```
naturalrev.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a PYTHON program to print natural numbers up to n in reverse order.
3
4 n = int(input("Enter the value of n: "))
5 if n <= 0:
6     print("Please enter a positive integer.")
7 else:
8     print(f"Natural numbers up to {n} in reverse order:")
9     i = n
10    while i > 0:
11        print(i, end=" ")
12        i -= 1
13
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri/naturalrev.py"
Enter the value of n: 22
Natural numbers up to 22 in reverse order:
22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

```
fibonacci.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a PYTHON program to print Fibonacci series up to n
3 # Display Fibonacci series up to 10 terms.
4
5 n = int(input("Enter the number of terms in Fibonacci series: "))
6 if n <= 0:
7     print("Please enter a positive integer.")
8 else:
9     i, first, second = 0, 0, 1
10    print(f"Fibonacci series up to {n}:")
11    while i <= n:
12        print(first, end=" ")
13        next = first + second
14        first, second = second, next
15        i += 1
16
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS Pyt

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri/fibonacci.py"
Enter the number of terms in Fibonacci series: 10
Fibonacci series up to 10:
0 1 1 2 3 5 8 13 21 34 55
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```



```
factorial.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a PYTHON program find a factorial of given number.
3
4 n = int(input("Enter a non-negative integer to find its factorial: "))
5 if n < 0:
6     print("Factorial is not defined for negative numbers.")
7 elif n == 0:
8     print("The factorial of 0 is 1.")
9 else:
10     f, i = 1, 1
11     while i <= n:
12         f *= i
13         i += 1
14     print(f"The factorial of {n} is {f}")
15
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS Python

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/OneDrive/hon/factorial.py"
Enter a non-negative integer to find its factorial: 31
The factorial of 31 is 8222838654177922817725562880000000
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python>
```

```
primenum.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a PYTHON program to check the entered number is prime or not.
3
4 n = int(input("Enter a positive integer to check if it's prime: "))
5 if n > 1:
6     i = 2
7     while i <= int(n**0.5):
8         if n % i == 0:
9             print(f"{n} is not a prime number.")
10            break
11            i += 1
12        else:
13            print(f"{n} is a prime number.")
14    else:
15        print(f"{n} is not a prime number.")
16
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS Python + v [ ] [ ] ... ^ x

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri python/primenum.py"
Enter a positive integer to check if it's prime: 21
21 is not a prime number.
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python>
```

```
digitsum.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a PYTHON program to find the sum of digits of given number.
3
4 n = int(input("Enter a positive integer: "))
5 if n <= 0:
6     print("Please enter a positive integer.")
7 else:
8     summ = 0
9     while n > 0:
10         digit = n % 10
11         summ += digit
12         n //= 10
13     print(f"The sum of digits is: {summ}")
14
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

Python + - [ ] [ ] ... ^ x

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/windowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri python/digitsum.py"
Enter a positive integer: 22
The sum of digits is: 4
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

```
palindrome.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a PYTHON program to check the entered number is palindrome or not.
3
4 n = int(input("Enter a positive integer to check if it's a palindrome: "))
5 if n < 0:
6     print("Please enter a positive integer.")
7 else:
8     original = n
9     reverse = 0
10    while n > 0:
11        digit = n % 10
12        reverse = reverse * 10 + digit
13        n //= 10
14    if original == reverse:
15        print(f"{original} is a palindrome.")
16    else:
17        print(f"{original} is not a palindrome.")
18
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

Python + - [ ] [ ] ... ^ x

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/windowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri python/palindrome.py"
Enter a positive integer to check if it's a palindrome: 2345
2345 is not a palindrome.
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

multable.py > ...

```
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a PYTHON program to print the multiplication table.
3 # Write a program to print a multiplication table of the entered number.
4
5 n = int(input("Enter a number for the multiplication table: "))
6 if n <= 0:
7     print("Please enter a positive integer.")
8 else:
9     print(f"\nMultiplication table for {n}:\n")
10    i = 1
11    while i <= 10:
12        print(f"{n} x {i} = ", n * i)
13        i += 1
14
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/windowsApps/python/hon/multable.py"

Enter a number for the multiplication table: 8

Multiplication table for 8:

```
8 x 1 = 8
8 x 2 = 16
8 x 3 = 24
8 x 4 = 32
8 x 5 = 40
8 x 6 = 48
8 x 7 = 56
8 x 8 = 64
8 x 9 = 72
8 x 10 = 80
```

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |

```
largestn.py > ...
1  # Name: Dhanshri Supratkar USN No.: CS22186
2  # Write a PYTHON program to print the largest of n numbers.
3
4  n = int(input("Enter the number of values: "))
5  if n <= 0:
6      print("Please enter a positive integer for the number of values.")
7  else:
8      l = float('-inf')
9      i = 1
10     while i <= n:
11         value = int(input(f"Enter value {i}: "))
12         if value > l:
13             l = value
14         i += 1
15     print(f"The largest number among the {n} values is: {l}")
16
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe
hon/largestn.py"
Enter the number of values: 3
Enter value 1: 6
Enter value 2: 7
Enter value 3: 8
The largest number among the 3 values is: 8
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

```
smallestn.py > ...
1  # Name: Dhanshri Supratkar USN No.: CS22186
2  # Write a PYTHON program to print smallest of n numbers.
3
4  n = int(input("Enter the number of values: "))
5  if n <= 0:
6      print("Please enter a positive integer for the number of values.")
7  else:
8      s = float('inf')
9      i = 1
10     while i <= n:
11         value = int(input(f"Enter value {i}: "))
12         if value < s:
13             s = value
14         i += 1
15     print(f"The smallest number among the {n} values is: {s}")
16
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/One
hon/smallestn.py"
Enter the number of values: 4
Enter value 1: 6
Enter value 2: 7
Enter value 3: 8
Enter value 4: 9
The smallest number among the 4 values is: 6
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> |
```

Hello20.py > ...

```
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Construct a program which will print the statement "Hello Students"
3 # twenty number of times by using while loop.
4
5 c = 0
6 while c < 20:
7     print("Hello Students")
8     c += 1
9
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

```
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
Hello Students
```

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python>

```
armstrong.py > ...
1  # Name: Dhanshri Supratkar USN No.: CS22186
2  # Write a program to check whether the entered number is Armstrong or not.
3
4  n = int(input("Enter a number to check if it's an Armstrong number: "))
5  if n < 0:
6      print("Please enter a positive integer.")
7  else:
8      num_digits = len(str(n))
9      original = n
10     armstrong_sum = 0
11     while n > 0:
12         digit = n % 10
13         armstrong_sum += digit ** num_digits
14         n //= 10
15     if original == armstrong_sum:
16         print(f"{original} is an Armstrong number.")
17     else:
18         print(f"{original} is not an Armstrong number.")
19
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.11/python/armstrong.py
Enter a number to check if it's an Armstrong number: 45
45 is not an Armstrong number.
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> █
```

```
nam.py | < digitsum.py | < palindromic.py | < markable.py | < largest.py | < smallest.py
pattern1.py > ...
1  # Name: Dhanshri Supratkar USN No.: CS22186
2  # Write a program to generate the following pattern:
3  # 1
4  # 2 3
5  # 4 5 6
6  # 7 8 9 10
7
8  n = 1
9  for i in range(1, 5):
10     for j in range(1, i+1):
11         print(n, end=" ")
12         n = n+1
13     print()
14
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.11/python/pattern1.py
1
2 3
4 5 6
7 8 9 10
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python>
```



```
pattern4.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a program to generate the following pattern:
3 # 5 5 5 5 5
4 # 4 4 4 4
5 # 3 3 3
6 # 2 2
7 # 1
8
9 n = 5
10 for i in range(1, 6):
11     for j in range(i, 6):
12         print(n, end=" ")
13     n = n - 1
14     print()
15
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Mi
hon/pattern4.py"
5 5 5 5 5
4 4 4 4
3 3 3
2 2
1
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python>
```

```
pattern5.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a program to generate the following pattern:
3 #           1
4 #         1 2
5 #       1 2 3
6 #     1 2 3 4
7 #   1 2 3 4 5
8
9 for i in range(1, 6):
10     for j in range(6, i+1, -1):
11         print(end=" ")
12     for k in range(1, i+1):
13         print(k, end=" ")
14     print()
15
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Mi
hon/pattern5.py"
           1
        1 2
       1 2 3
      1 2 3 4
     1 2 3 4 5
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python>
```



```
pattern6.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Write a program to generate the following pattern:
3 #
4 #      * * *
5 #      * * * * *
6 #      * * * * * *
7 #      * * * * * * *
8
9 l = r = 5
10 for i in range(1, 6):
11     for j in range(1, 11):
12         if j >= l and j <= r:
13             print(" *", end="")
14         else:
15             print(end=" ")
16     l = l - 1
17     r = r + 1
18     print()
19
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.1/hon/pattern6.py"

```

      * * *
      * * * * *
      * * * * * *
      * * * * * * *

```

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python>

```
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Display numbers from -10 to -1 using for loop.
3
4 for i in range(-10, 0):
5     print(i, end=" ")

```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/hon/forloop.py"

```
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1

```

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python>

```
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Print list in reverse order using a loop.
3
4 numbers = [1, 2, 3, 4, 5, 6]
5 print("\nList in reverse order:")
6 for i in range(len(numbers) - 1, -1, -1):
7     print(numbers[i], end=" ")
8
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

Python + - [ ] ... ^ X

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri python/listrev.py"

List in reverse order:  
6 5 4 3 2 1  
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python>

```
oddindex.py > ...
1 # Name: Dhanshri Supratkar USN No.: CS22186
2 # Use a loop to display elements from a given
3 # list present at odd index positions.
4
5 elements = [1, 2, 3, 4, 5, 6]
6 print("\nElements at odd index positions:")
7 for i in range(1, len(elements), 2):
8     print(elements[i], end=" ")
9
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python> & C:/Users/dhans/AppData/Local/Microsoft/WindowsApps/python3.12.exe "c:/Users/dhans/OneDrive/Desktop/Dhanshri python/oddindex.py"

Elements at odd index positions:  
2 4 6  
PS C:\Users\dhans\OneDrive\Desktop\Dhanshri python>