

```
## Append
fruit = ['Mango', 'Apple', 'Orange', 'Pineapple'];
print (fruit);
fruit.append('Guava');
print (fruit);
veg = ['Yotato', 'Onion', 'Tomato'];
fruit.append(weg)
                                                                                                                                                                                                                                           IDLE Shell 3.10,4
                                                                                                                                                                                                                                                                                                                                                                                                                          □ ×
                                                                                                                                                                                                                                            File Edit Shell Debug Options Window Help
                                                                                                                                                                                                                                                    Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit ( *AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.
fruit.append(veq)
print(fruit) #append use krne se nested list print horhi
print("------")

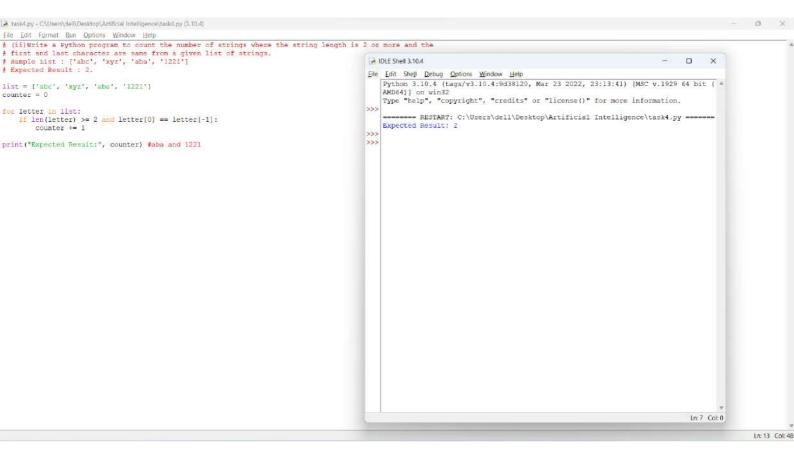
#Extend: ye break krdeta h value ko string hoga to letters me break list h to elements me break
fruits = ('Mango','Apple','Orange','Pineapple')
print(fruits)
fruits.extend('Guava');
print (fruits);
vepl = ['Potato','Onion','Tomato'] # extend elements me break krta h to nested list nh banegi
fruits.extend(veg)
print (fruits)
                                                                                                                                                                                                                                                     ======= RESTART: C:\Users\dell\Desktop\Artificial Intelligence\task3.py =======

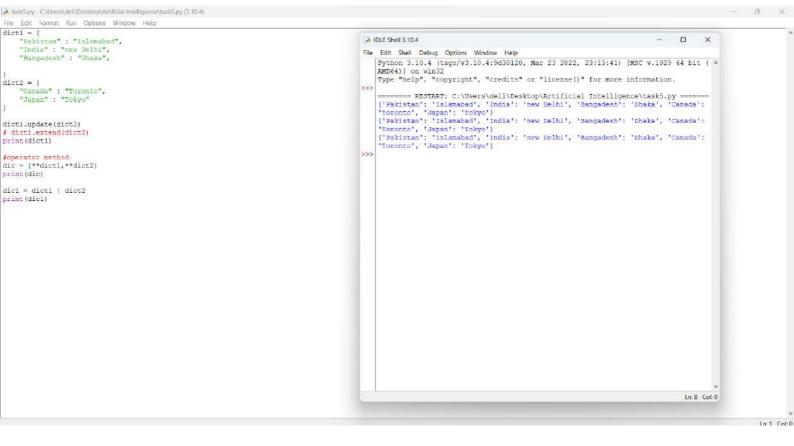
['Mango', 'Apple', 'Orange', 'Pineapple']

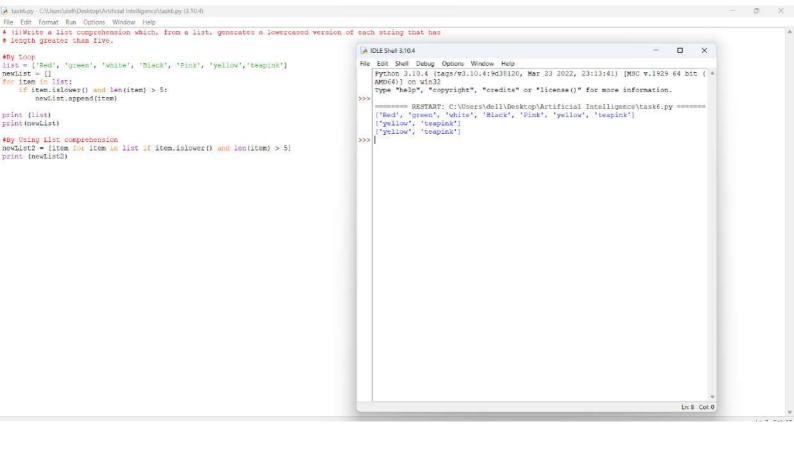
['Mango', 'Apple', 'Orange', 'Pineapple', 'Guava']

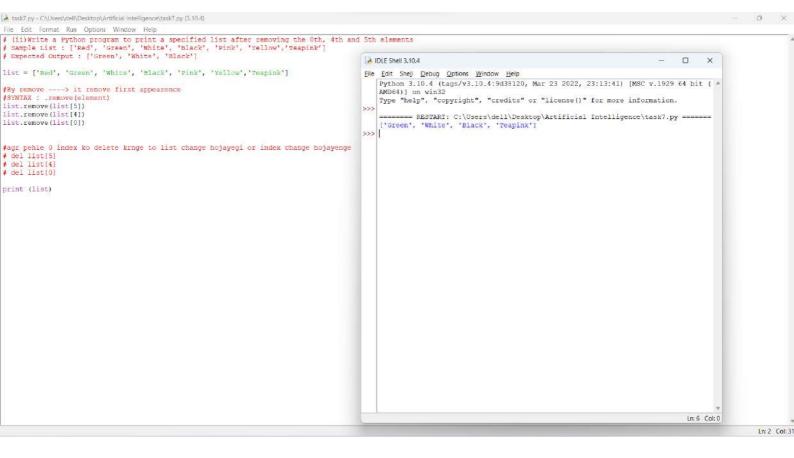
['Mango', 'Apple', 'Orange', 'Pineapple', 'Guava', ['Potato', 'Onion', 'Tomato']
                                                                                                                                                                                                                                                     ['Mango', 'Apple', 'Orange', 'Fineapple']
['Mango', 'Apple', 'Orange', 'Fineapple', 'G', 'u', 'a', 'v', 'a']
['Mango', 'Apple', 'Orange', 'Fineapple', 'G', 'u', 'a', 'v', 'a', 'Fotato', 'On ion', 'Tomato']
print("-
# Insert
                                                                                                                                                                                                                                                     ['Dell', 'Hewlett Packard', 'lenovo']
['apple', 'Dell', 'Hewlett Packard', 'lenovo']
list = ['Dell',"Hewlett Packard",'lenovo']
# .insert(index,element)
print(list)
list.insert(0,'apple')
print(list)
                                                                                                                                                                                                                                                     11, 2, 4, 51
                                                                                                                                                                                                                                           [1, 2, 3, 4, 5]
[5, 4, 3, 2, 1]
print(abc)
# abc.remove(31) #give value error if element is not in the list
# print(abc)
Ln: 20 Col: 0
```

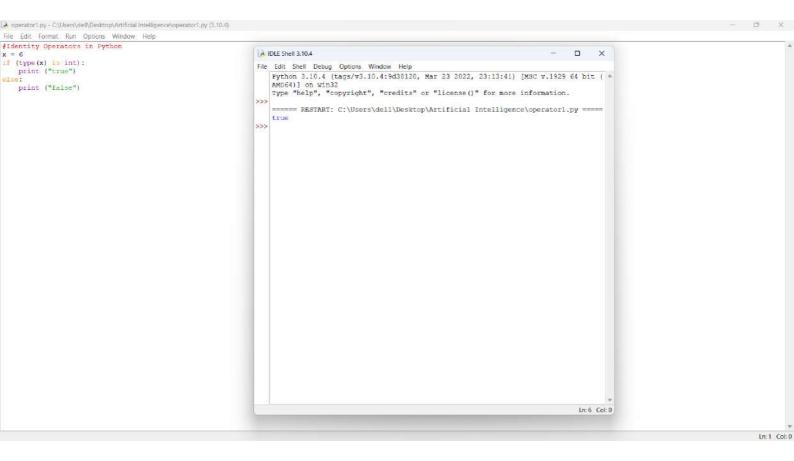
atask3.py - C\Users\dell\Desktop\Artificial Intelligence\task3.py (3.10.4)

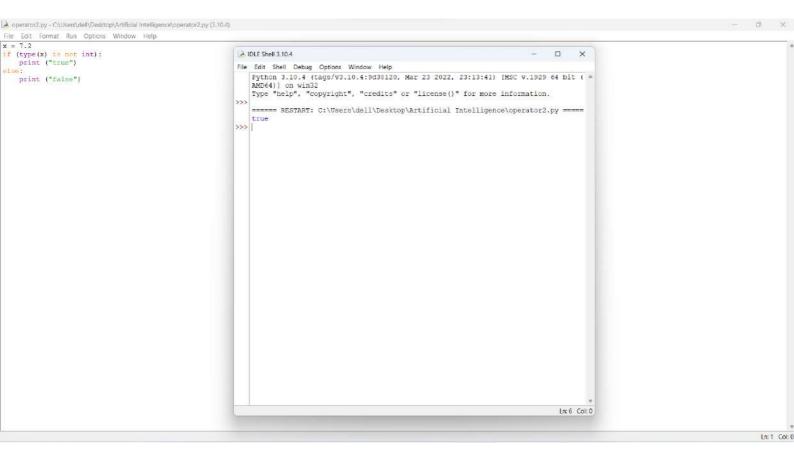


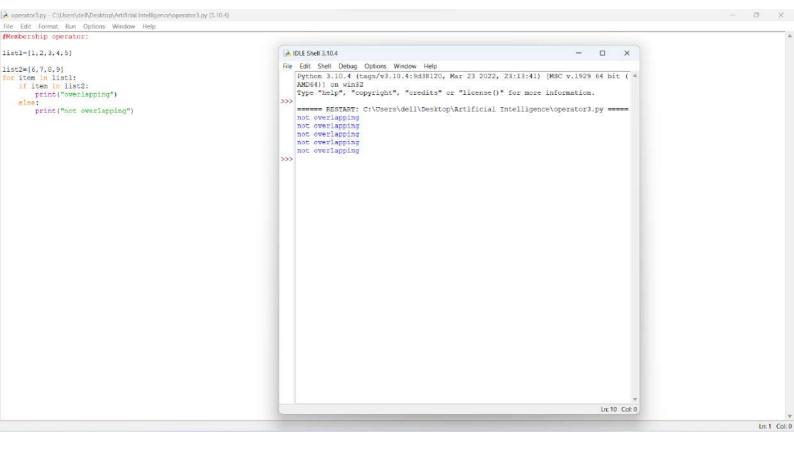


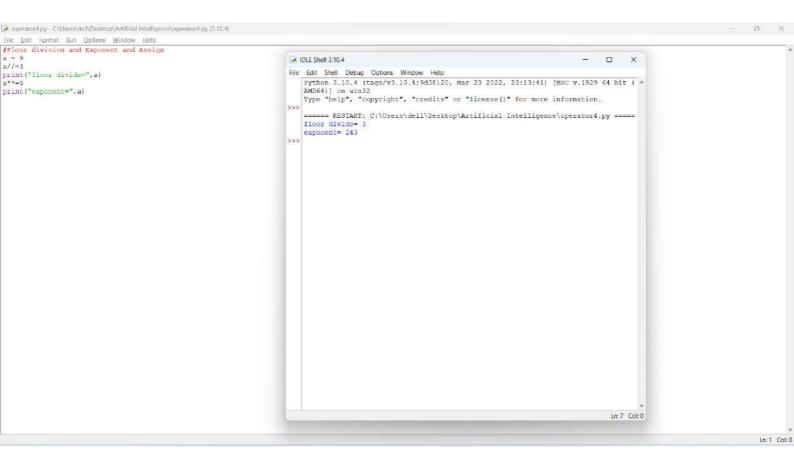


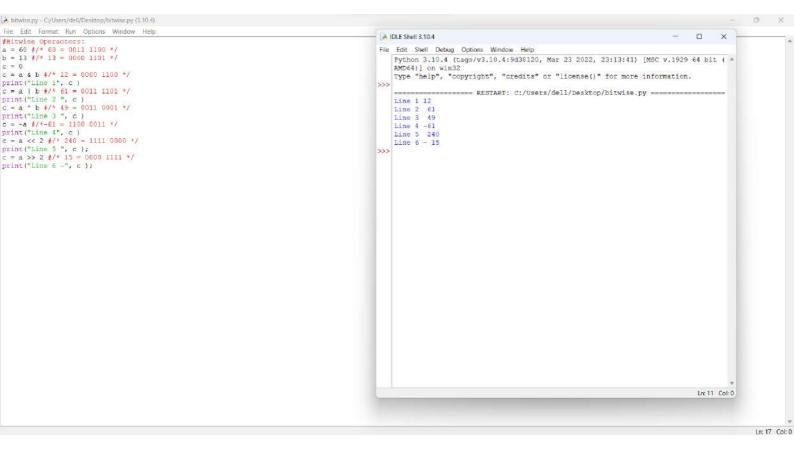












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# Task 1: Introduction
print("Welcome to the Basic Calculator Program!")
                                                                                                                                                             DLE Shell 3.10.4
                                                                                                                                                             File Edit Shell Debug Options Window Help

Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit ( * AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.
# Task 2: Terminal
print("\nTask 2: Terminal - Open your terminal to run this program.")
# Task 3: Python Interpreter
print("\nTask 3: Python Interpreter - Install Python on your system.")
                                                                                                                                                                  # Task 4: Variables
print("\nInitializing a variable to store the result")
result - 0
                                                                                                                                                                  Task 2: Terminal - Open your terminal to run this program.
                                                                                                                                                                  Task 3: Python Interpreter - Install Python on your system.
# Task 5: Text Editor
print("\nTask 5: Text Editor - Use any Text Editor to write python code and use extention'.py' to run.
                                                                                                                                                                  Initializing a variable to store the result
# Task 6: Functions
                                                                                                                                                                  Task 5: Text Editor - Use any Text Editor to write python code and use extention '.py' to run.
def add(x, y):
return x + y
                                                                                                                                                                 Task 9: For Loop - Please choose an operation:
1: Addition
2: Subtraction
3: Multiplication
4: Division
def subtract(x, y):
    return x - y
def multiply(x, y):
                                                                                                                                                                  4: Division
Enter the number corresponding to your choice: 4
Enter the first number: 7
Enter the second number: 2
def divide(x, y):
    if y != 0:
        return x / y
    else:
                                                                                                                                                                  Result of Division is: 3.5
            return "Cannot divide by zero"
# Task 7: Lists and Tuples
operations = ['Addition', 'Subtraction', 'Multiplication', 'Division']
# operations = ('Addition', 'Subtraction', 'Multiplication', 'Division')
# Task 9: The For Loop
print("\nTask 9: For Loop - Please choose an operation:")
for i in range(len(operations)):
    # print(str(i + 1) + ". " + operations[i])
    print((i + 1),": ",operations[i])
                                                                                                                                                                                                                                                                                  Ln: 25 Col: 0
# Task 8: Conditional Statements
# Task 10: User Input and the While Loop
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exercise.py - C\Users\delf\Desktop\Artificial Intelligence\exercise.py (3.10.4)

```
def multiply(x, y):
    return x * y
                                                                                                                                                                                      IDLE Shell 3.10.4
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                                                                                                                                                                                           Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit ( AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.
def divide(x, y):
    if y != 0:
              return x / y
                                                                                                                                                                                            ----- RESTART: C:\Users\dell\Desktop\Artificial Intelligence\exercise.py ------
Welcome to the Basic Calculator Program!
             return "Cannot divide by zero"
# Task 7: Lists and Tuples
operations = ['Addition', 'Subtraction', 'Multiplication', 'Division']
# operations = ('Addition', 'Subtraction', 'Multiplication', 'Division')
                                                                                                                                                                                            Task 2: Terminal - Open your terminal to run this program.
                                                                                                                                                                                            Task 3: Python Interpreter - Install Python on your system.
# Task 9: The For Loop
print("\nTask 9: For Loop - Please choose an operation:")
                                                                                                                                                                                            Initializing a variable to store the result
for i in range(len(operations)):
    # print(str(i + 1) + ". " + operations[i])
    print((i + 1),": ",operations[i])
                                                                                                                                                                                            Task 5: Text Editor - Use any Text Editor to write python code and use extention '.py' to run.
                                                                                                                                                                                           Pask 9: For Loop - Please choose an operation:
1 : Addition
2 : Subtraction
3 : Multiplication
4 : Division
Enter the number corresponding to your choice: 4
Enter the first number: 7
Enter the second number: 2
# Task 8: Conditional Statements
# Task 10: User Input and the While Loop
choice = int(input("Enter the number corresponding to your choice: "))
num1 = float(input("Enter the first number: "))
num2 = float(input("Enter the second number: "))
                                                                                                                                                                                            Result of Division is: 3.5
while True:
    if choice == 1:
        result = add(num1, num2)
    elif choice == 2:
        result = subtract(num1, num2)
    elif choice == 3:
        result = multiply(num1, num2)
    elif choice == 4:
    result = divide(num1, num2)
              result - divide(num1, num2)
              print("Invalid choice, Please choose a number between 1 and 4")
      print("\nResult of", operations(choice - 1], "is:", result)
                                                                                                                                                                                                                                                                                                                               Ln: 25 Col: 0
                                                                                                                                                                                                                                                                                                                                 Ln: 8 Col: 70
```

🔥 exercise.py - C:\Users\dell\Desktop\Artificial Intelligence\exercise.py (3.10.4

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