----------TASK-01----------

```python

'''
def body_mass_index(w, h):
    return w / (h ** 2)

try:
    user_weight = float(input("Enter your weight in kilograms: "))
    user_height = float(input("Enter your height in meters: "))

    if user_weight <= 0 or user_height <= 0:
        print("Weight and height must be positive values.")
    else:

        bmi = body_mass_index(user_weight, user_height)
        print(f"Your BMI is: {bmi:.2f}")


        if bmi < 18.5:
            print("You are underweight.")
        elif 18.5 <= bmi < 24.9:
            print("You have a normal weight.")
        elif 25 <= bmi < 29.9:
            print("You are overweight.")
        else:
            print("You are obese.")
except ValueError:
    print("Please enter valid numeric values for weight and height.")

```

----------OUTPUT-01----------

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  COMMENTS   Code

PS C:\Users\LENOVO> python -u "c:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS\TASK-01.py"
Enter your weight in kilograms: 70
Enter your height in meters: 1.768
Your BMI is: 22.39
You have a normal weight.
PS C:\Users\LENOVO>
```

----------TASK-02----------

```python
def addition(a, b):
    return a + b

def subtraction(a, b):
    return a - b

def multiplication(a, b):
    return a * b

def division(a, b):
    try:
        return a / b
    except ZeroDivisionError:
        return "Error: Division by zero is not allowed."


def main():

    num1 = float(input("Enter the first number: "))
    num2 = float(input("Enter the second number: "))

    print("Which operation do you want to perform?")
    for x, y in enumerate(functions):
        print(f"{x + 1}: {y}")
    while True:

        choice = int(input("Enter the number corresponding to the operatio


        if choice == 1:
            print(f"Result: {addition(num1, num2)}")
            break
        elif choice == 2:
            print(f"Result: {subtraction(num1, num2)}")
            break
        elif choice == 3:
            print(f"Result: {multiplication(num1, num2)}")
```

----------OUTPUT-02----------

```
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS> python -u "c:\Users\LENOVO\Desktop\INTERNSHIP '
S TASKS\TASK-02.py"
Enter the first number: 45
Enter the second number: 0
Which operation do you want to perform?
1: ADDITION
2: SUBTRACTION
3: MULTIPLICATION
4: DIVISION
Enter the number corresponding to the operation: 4
Result: Error: Division by zero is not allowed.
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS>
```

----------TASK-03----------

TASK-03.py > ...

```python
'''
Write a program to count all the even numbers in that given list and print
list = [2,4,6,5,3,8,2,6,6,4]

'''


def even_no_count(given_list):

    return [x for x in given_list if x%2==0]

list = [2,4,6,5,3,8,2,6,6,4]

print(f'Even number in lists are "{even_no_count(list)}"')
print(f'Count of even numbers is "{len(even_no_count(list))}"')


```

----------OUTPUT-03----------

```
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS> python -u "c:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS\TASK-03.py"
Even number in lists are "[2, 4, 6, 8, 2, 6, 6, 4]"
Count of even numbers is "8"
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS>
```

----------TASK-04----------

TASK-04.py > ...

```python
'''
Write a program that returns the sum of all the elements in the given list


'''
def main():

    numbers = [2, 4, 6, 5, 3, 8, 2, 6, 6, 4]

# Using the built-in sum function
    def sum_function(x):
        return sum(x)

    print("Sum using built-in sum function:")
    print(sum_function(numbers))

    print("========================")
# other approach
    total = 0
    for num in numbers:
        total += num

    print("Sum using a loop:")
    print(total)

if __name__ == "__main__":
    main()

```

----------OUTPUT-04----------

```
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS> pytho
S TASKS\TASK-04.py"
Sum using built-in sum function:
46
======================
Sum using a loop:
46
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS>
```

----------TASK-05----------

TASK-05.py > ...

```python
'''
Write a program that should delete all elements in the list less than 4. u
in task 3.

'''
numbers = [2, 4, 6, 5, 3, 8, 2, 6, 6, 4]


new_list = [x for x in numbers if x>=4]


print(new_list)
```

----------OUTPUT-05----------

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS Code

```
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS> python -u "c:\Users\LENOVO\Desktop\INTERNSHIP '
S TASKS\TASK-05.py"
[4, 6, 5, 8, 6, 6, 4]
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS>
```

----------TASK-06----------

TASK-06.py > ...

```python
'''
Write a program to take marks of 3 subjects as input by user and store them in a
dictionary having appropriate keys. Using that dictionary calculate average and
percentage of those marks.

'''

std_data = {}

subjects = ["ENGLISH","MATH","PHYSICS"]


for subject in subjects:
    std_data[subject] = int(input(f"ENTER {subject} MARKS: "))



total_marks = sum(std_data.values())

average_marks = total_marks / len(subjects)


max_marks_per_subject = 100
percentage = (total_marks / (max_marks_per_subject * len(subjects))) * 100

print("\nStudent Marks:")
for subject, marks in std_data.items():
    print(f"{subject}: {marks}")

print(f"\nTotal Marks: {total_marks}")
print(f"Average Marks: {average_marks:.2f}")
print(f"Percentage: {percentage:.2f}%")


```

----------OUTPUT-06----------

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  COMMENTS        Code

PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS> python -u "c:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS\TASK-06.py"
ENTER ENGLISH MARKS: 78
ENTER MATH MARKS: 89
ENTER PHYSICS MARKS: 98

Student Marks:
ENGLISH: 78
MATH: 89
PHYSICS: 98

Total Marks: 265
Average Marks: 88.33
Percentage: 88.33%
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS>
```

----------TASK-07----------

```
'''

Write a Python program to get the largest number from a list input from user. use t
list given in task 3.
'''

#function using input from the user



def largest_num(user_list):
    return max(user_list)



user_input = map(int,input("ENTER THE COMMA SEPERATED LIST:  ").strip().split(","))

print("user output")
print(largest_num(user_input))


#function using task 3 list


print("output of list(given)")

print(largest_num([2,4,6,5,3,8,2,6,6,4]))
```

----------OUTPUT-07----------

```
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS> python -u "c:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS\TASK-07.py"
ENTER THE COMMA SEPERATED LIST:  23,4,567,2,3,4,5,6,7,81,2,3,3
user output
567
output of list(given)
8
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS>
```

----------TASK-08----------

TASK-08.py > ...

```python
'''
Write a python program that take 10 inputs from the user using loop and append the
every user input value in the list and calculate the sum of all numbers.

'''

sum = 0

my_list = []

for x in range(10):
    user_data = int(input(f"ENTER THE '{x}' input : "))
    my_list.append(user_data)

    sum += my_list[x]


print(my_list)
print(sum)
```

----------OUTPUT-08----------

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  COMMENTS        Code

PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS> python -u "c:\Users\LENOVO\Desktop\INTERNSHIP
SK-08.py"
ENTER THE '0' input : 45
ENTER THE '1' input : 3
ENTER THE '2' input : 5
ENTER THE '3' input : 6
ENTER THE '4' input : 1
ENTER THE '5' input : 23
ENTER THE '6' input : 44
ENTER THE '7' input : 5
ENTER THE '8' input : 6
ENTER THE '9' input : 76
[45, 3, 5, 6, 1, 23, 44, 5, 6, 76]
214
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS>
```

----------TASK-09----------

```python

Write a python program that take 5 subjects marks from the user and then check the
condition if input marks > 100 then show the output " Invalid Input", if input mark
50 but <= 100 then show " Pass" otherwise show "Fail".

'''


for x in range(1,6):
    marks = int (input(f"ENTER THE MARKS FOR SUBJECT {x}:  "))

    if marks > 100:
        print("IVALID MARKS!!! Marks can't be greater than 100 ")
    elif marks >= 50 and marks<=100:
        print("PASS!!")
    else:
        print("FAIL!!!")
```

----------OUTPUT-09----------

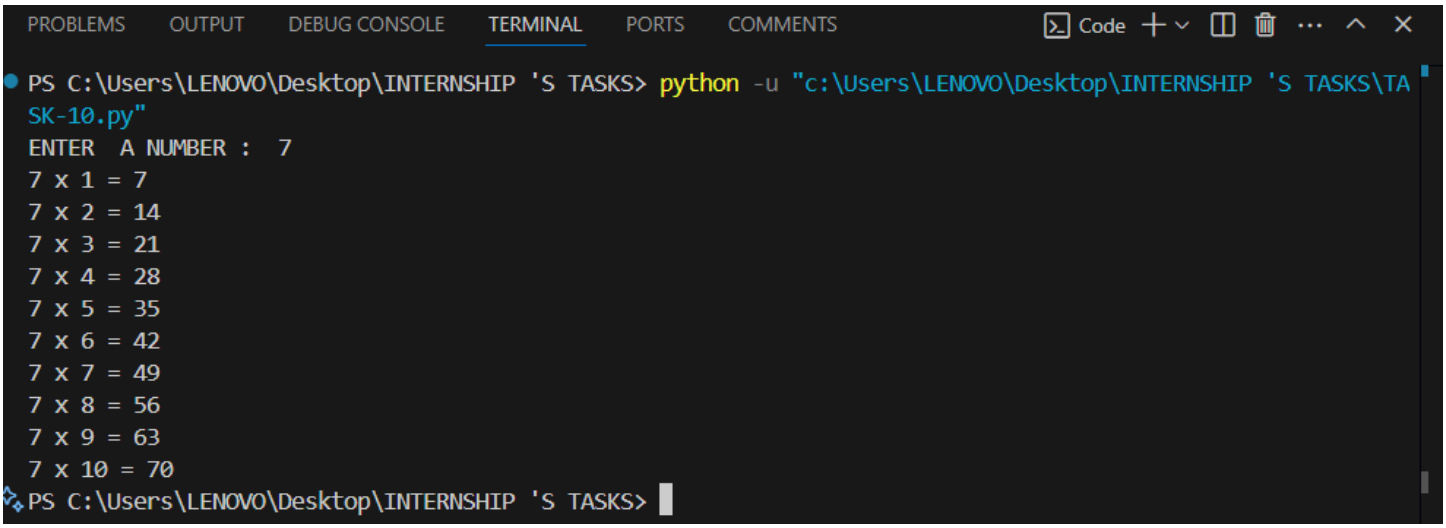
```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  COMMENTS                Code

PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS> python -u "c:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS\TA
SK-09.py"
ENTER THE MARKS FOR SUBJECT 1:  23
FAIL!!!
ENTER THE MARKS FOR SUBJECT 2:  45
FAIL!!!
ENTER THE MARKS FOR SUBJECT 3:  6
FAIL!!!
ENTER THE MARKS FOR SUBJECT 4:  7199
IVALID MARKS!!! Marks can't be greater than 100
ENTER THE MARKS FOR SUBJECT 5:  78
PASS!!
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS>
```

----------TASK-10----------

TASK-10.py > ...

```python
'''
10. Write a Python program to create the multiplication table (from 1 to 10) of a n
Expected Output:
Input a number: 6 (should be user input)
6 x 1 = 6
6 x 2 = 12
6 x 3 = 18
6 x 4 = 24
6 x 5 = 30
6 x 6 = 36
6 x 7 = 42
6 x 8 = 48
6 x 9 = 54
6 x 10 = 60
(table should be print same as above sequence and values)



'''

def table_generator(n):
    for x in range (1,11):
        print(f"{n} x {x} = {n*x}")

num = int(input("ENTER  A NUMBER :  "))

table_generator(num)
```

----------OUTPUT-10----------


PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
COMMENTS
Code
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS> python -u "c:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS\TASK-10.py"
ENTER A NUMBER : 7
7 x 1 = 7
7 x 2 = 14
7 x 3 = 21
7 x 4 = 28
7 x 5 = 35
7 x 6 = 42
7 x 7 = 49
7 x 8 = 56
7 x 9 = 63
7 x 10 = 70
PS C:\Users\LENOVO\Desktop\INTERNSHIP 'S TASKS>