In [1]:
```
print("hello world")
```

```
hello world
```

In [2]:
```
name, age, height, is_student = "Alice", 25, 5.6, True
print("Name:", name, "| Age:", age, "| Height:", height, "| Is Student:",
is_student)
print("Greeting:", "Hello, " + name)
print("Next year age:", age + 1)
print("Half of height:", height / 2)
print("Is not a student?", is_student)
```

```
Name: Alice | Age: 25 | Height: 5.6 | Is Student: True
Greeting: Hello, Alice
Next year age: 26
Half of height: 2.8
Is not a student? True
```

In [24]:
```
name = "usha"
age = 45
print("My name is " + name + " and I am " + str(age) + " years old.")
```

```
My name is usha and I am 45 years old.
```

In [4]:
```
num1 = 10
num2 = 5
addition = num1 + num2
subtraction = num1 - num2
multiplication = num1 * num2
division = num1 / num2
print("Addition:", addition)
print("Subtraction:", subtraction)
print("Multiplication:", multiplication)
print("Division:", division)
```

```
Addition: 15
Subtraction: 5
Multiplication: 50
Division: 2.0
```

In [7]:
```
fruits = ["Apple", "Banana", "Cherry", "Mango", "Orange"]
for fruit in fruits:
 print(fruit)
```

```
Apple
Banana
Cherry
Mango
Orange
```

In [9]:
```
for i in range(1, 5):
 print("*" * i)
```

```
*
**
***
****
```

In [23]:
```
name, age, is_student = "sudha", 34, True
print("Original name:", name)
print("Original age:", age)
```

```
print("Original is_student:", is_student)
name = "Bob"
age += 1
is_student = not is_student
print("Modified name:", name)
print("Modified age:", age)
print("Modified is_student:", is_student)
```

```
Original name: sudha
Original age: 34
Original is_student: True
Modified name: Bob
Modified age: 35
Modified is_student: False
```

In [11]:
```
name = "gayathiri"
age = 21
dob = "04/06/2004"
height = 5.4
print("Name:", name)
print("Age:", age)
print("Date of Birth:", dob)
print("Height:", height, "ft")
```

```
Name: gayathiri
Age: 21
Date of Birth: 04/06/2004
Height: 5.4 ft
```

In [12]:
```
firstName = "Alice"
last_name = "Johnson"
print("First Name:", firstName)
print("Last Name:", last_name)
```

```
First Name: Alice
Last Name: Johnson
```

In [13]:
```
PI = 3.14159
radius = 5
circumference = 2 * PI * radius
print("Circumference:", circumference)
```

```
Circumference: 31.4159
```

In [14]:
```
colors=["red","blue","green"]
print("First:",colors[0])
print("Last:",colors[-1])
colors[1]="yellow"
colors.append("purple")
print("Updated List:",colors)
```

```
First: red
Last: green
Updated List: ['red', 'yellow', 'green', 'purple']
```

In [ ]:
```

```

In [15]:
```
base = 10
height = 5
area = (base * height) / 2
print("Area of triangle:", area)
```

```
Area of triangle: 25.0
```

In [16]:
```
x = 10
x += 5
x -= 3
x *= 2
x /= 4
print("Final value:", x)
```

```
Final value: 6.0
```

In [17]:
```
a, b = 10, 5
print(a > b, a < b, a == b, a != b, a >= b, a <= b)
```

```
True False False True True False
```

In [18]:
```
a = float(input("enter the height1:"))
b = float(input("enter the height 2:"))
c = float(input("enter the height 3:"))
print("Average:", (a + b + c) / 3)
```

```
Average: 160.26666666666665
```

In [22]:
```
print("________Personal Details_________")
name = input("Enter the Name: ")
dob = input("Enter the DOB (dd/mm/yyyy): ")
age = input("Enter the age: ")
height = input("Enter the height: ")
weight = input("Enter the weight: ")
degree = input("Enter the degree: ")
gender = input("Enter the gender: ")

print("________Entered Details_________")
print("Name: " + name)
print("DOB: " + dob)
print("Age: " + age)
print("Height: " + height+"ft")
print("Weight: " + weight + " kg")
print("Degree: " + degree)
print("Gender: " + gender)
```

```
________Personal Details_________
________Entered Details_________
Name: gayathri
DOB: 04/06/2004
Age: 21
Height: 160.0ft
Weight: 52 kg
Degree: B.tech
Gender: female
```

In [25]:
```
num1 = int(input("Enter the first value: "))
num2 = int(input("Enter the second value: "))

arithmetic_operators = {
" Addition": num1 + num2,
"Subtraction": num1 - num2,
"Multiplication": num1 * num2,
"Division": (num1 / num2),
}
```

```
print(arithmetic_operators)
```

```
{' Addition': 1543700, 'Subtraction': 456300, 'Multiplication': 543700000000, 'Di
vision': 1.8392495861688432}
```

In [26]:
```
base = float(input("Enter the base of the triangle: "))
height = float(input("Enter the height of the triangle: "))
area = (base * height) / 2
print("\nThe area of the triangle","\n","base:", base, "\n","height:",
height,"\n" "total area of triangle is:", area)
```

```
The area of the triangle
 base: 4.0
 height: 9.0
total area of triangle is: 18.0
```

In [29]:
```
Tamil = input("Enter grade for Tamil: ").upper()
English = input("Enter grade for English: ").upper()
Maths = input("Enter grade for Maths: ").upper()
Science = input("Enter grade for Science: ").upper()
Social = input("Enter grade for Social: ").upper()
grade_points = {
"A": 5,
"B": 4,
"C": 3,
"D": 2,
"E": 1,
"F": 0
}

tamil_grade = grade_points.get(Tamil, 0)
english_grade = grade_points.get(English, 0)
maths_grade = grade_points.get(Maths, 0)
science_grade = grade_points.get(Science, 0)
social_grade = grade_points.get(Social, 0)
total_grades = tamil_grade + english_grade + maths_grade + science_grade +social
average_grades = total_grades / 5
print("\n______Result______")
print("Total Grade Points:", total_grades)
print("Average Grade Point:", round(average_grades,3))
```

```
______Result______
Total Grade Points: 24
Average Grade Point: 4.8
```

In [ ]: