

## ✓ Task 01:

Print Your Name with your Father name and Date of birth using suitable escape sequence charactor

```
name = "Samia Ilyas"
father_name = "Muhammad Ilyas Ahmed"
Dob = "01-Jan-2002"
print("Name:\t", name, "\nFather's Name:\t", father_name, "\nDate of Birth:\t", Dob)
```

```
Name:    Samia Ilyas
Father's Name:  Muhammad Ilyas Ahmed
Date of Birth:  01-Jan-2002
```

## ✓ Task 02:

Write your small bio using variables and print it using print function

```
name = "Samia Ilyas"
father_name = "Muhammad Ilyas Ahmed"
dob = "01-Jan-2002"
degree = "Bachelors in Computer Science"
university = "NUCES FAST"
interest1 = "Data Science"
interest2 = "paint and sketch"
bio = f"My name is {name}. My father's name is {father_name}. I was born on {dob}. \nI'm currently getting my degree in {degree} from {unive"
print(bio)
```

```
My name is Samia Ilyas. My father's name is Muhammad Ilyas Ahmed. I was born on 01-Jan-2002.
I'm currently getting my degree in Bachelors in Computer Science from NUCES FAST.
My primary interest lies in Data Science, a field where I explore large datasets to glean insights and make informed decisions.
Alongside my professional pursuits, I have a passionate interest in paint and sketch.
This hobby allows me to express my creativity through various artistic mediums, providing a fulfilling balance to my analytical work.
```

## ✓ Task 03:

Write a program in which use all the operators we can use in Python

```
# Arithmetic Operators
a = 9
b = 3
print("Arithmetic Operators:")
print("Addition (a + b):", a + b)
print("Subtraction (a - b):", a - b)
print("Multiplication (a * b):", a * b)
print("Division (a / b):", a / b)
print("Modulus (a % b):", a % b)
print("Exponentiation (a ** b):", a ** b)
print("Floor Division (a // b):", a // b)

# Comparison Operators
print("\nComparison Operators:")
print("Equal (a == b):", a == b)
print("Not equal (a != b):", a != b)
print("Greater than (a > b):", a > b)
print("Less than (a < b):", a < b)
print("Greater than or equal to (a >= b):", a >= b)
print("Less than or equal to (a <= b):", a <= b)

# Assignment Operators
print("\nAssignment Operators:")
c = 10
c += a
print("c += a:", c)
c -= a
print("c -= a:", c)
c *= a
print("c *= a:", c)
```

```

print("c += a:", c)
c /= a
print("c /= a:", c)
c %= a
print("c %= a:", c)
c **= b
print("c **= b:", c)
c //= b
print("c //= b:", c)

# Logical Operators
print("\nLogical Operators:")
d = True
e = False
print("x and y:", d and e)
print("x or y:", d or e)
print("not x:", not d)

# Bitwise Operators
print("\nBitwise Operators:")
print("AND (a & b):", a & b)
print("OR (a | b):", a | b)
print("XOR (a ^ b):", a ^ b)
print("NOT (~a):", ~a)
print("Left Shift (a << 1):", a << 1)
print("Right Shift (a >> 1):", a >> 1)

```



#### Arithmetic Operators:

```

Addition (a + b): 12
Subtraction (a - b): 6
Multiplication (a * b): 27
Division (a / b): 3.0
Modulus (a % b): 0
Exponentiation (a ** b): 729
Floor Division (a // b): 3

```

#### Comparison Operators:

```

Equal (a == b): False
Not equal (a != b): True
Greater than (a > b): True
Less than (a < b): False
Greater than or equal to (a >= b): True
Less than or equal to (a <= b): False

```

#### Assignment Operators:

```

c += a: 19
c -= a: 10
c *= a: 90
c /= a: 10.0
c %= a: 1.0
c **= b: 1.0
c //= b: 0.0

```

#### Logical Operators:

```

x and y: False
x or y: True
not x: False

```

#### Bitwise Operators:

```

AND (a & b): 1
OR (a | b): 11
XOR (a ^ b): 10
NOT (~a): -10
Left Shift (a << 1): 18
Right Shift (a >> 1): 4

```

## ✓ Task 04:

1. Mention Marks of English , Islamiat and Maths out of 100 in 3 different variables
2. Mention Variable of Total Marks and assign 300 to it
3. Calculate Percentage

```

english = 85
islamiat = 74
maths = 92
total_marks = 300

```

```
obtained_marks = english + islamiat + maths
percentage = (obtained_marks / total_marks) * 100

print("Marks in English:", english)
print("Marks in Islamiat:", islamiat)
print("Marks in Maths:", maths)
print("Total Marks:", total_marks)
print("Total Obtained Marks:", obtained_marks)
print("Percentage:", format(percentage, ".2f"), "%")
```

```
Marks in English: 85
Marks in Islamiat: 74
Marks in Maths: 92
Total Marks: 300
Total Obtained Marks: 251
Percentage: 83.67 %
```