**LAB 1**

**1. Add two numbers**

a = 10

b = 20

print("Addition:", a + b)

Output: Addition: 30

**2. Subtract two numbers**

a = 20

b = 10

print("Subtraction:", a - b)

Output: Subtraction: 10

**3. Multiply two numbers**

a = 5

b = 6

print("Multiplication:", a \* b)

Output: Multiplication: 30

**4.Divide two numbers**

a = 20

b = 5

print("Division:", a / b)

Output: Division: 4.0

**5. Add, multiply, subtract and divide two numbers**

a = 10

b = 2

print("Addition:", a + b, "Subtraction:", a - b, "Multiplication:", a \* b, "Division:", a / b)

Output: Addition: 12 Subtraction: 8 Multiplication: 20 Division: 5.0

**6.Convert hours into minutes**

hours = 5

print("Minutes:", hours \* 60)

Output: Minutes: 300

**7.Convert minutes into hours**

minutes = 300

print("Hours:", minutes / 60)

Output: Hours: 5.0

**8. Convert dollars into Rs. Where 1 $ = 48 Rs.**

dollars = 10

print("Rupees:", dollars \* 48)

Output: Rupees: 480

**9.Convert Rs. into dollars where 1 $ = 48 Rs.**

rupees = 480

print("Dollars:", rupees / 48)

Output: Dollars: 10.0

**10. Convert dollars into pound where 1 $ = 48 Rs. And 1 pound = 70 Rs.**

dollars = 10

print("Pounds:", (dollars \* 48) / 70)

Output: Pounds: 6.857142857142857

**11. Convert grams into kg**

grams = 1000

print("Kilograms:", grams / 1000)

Output: Kilograms: 1.0

**12. Convert kgs into grams**

kgs = 5

print("Grams:", kgs \* 1000)

Output: Grams: 5000

**13. Convert bytes into KB, MB and GB**

bytes = 1024000

print("KB:", bytes / 1024, "MB:", bytes / (1024\*\*2), "GB:", bytes / (1024\*\*3))

Output: KB: 1000.0 MB: 0.9765625 GB: 0.00095367431640625

**14. Convert Celsius into Fahrenheit. F = (9/5 \* C) + 32**

Celsius = 25

print("Fahrenheit:", (9/5 \* celcius) + 32)

Output: Fahrenheit: 77.0

**15. Convert Fahrenheit into Celsius. C = 5/9 \* (F – 32)**

fahrenheit = 77

print("Celcius:", 5/9 \* (fahrenheit - 32))

Output: Celcius: 25.0

**16. Calculate interest where I = PRN/100**

p = 1000

r = 5

n = 2

print("Interest:", (p \* r \* n) / 100)

.Output: Interest: 100.0

**18.Calculate area & perimeter of a square. A = L^2, P = 4L**

length = 4

print("Area of square:", length\*\*2, "Perimeter of square:", 4 \* length)

Output: Area of square: 16 Perimeter of square: 16

**19. Calculate area & perimeter of a rectangle. A = L\*B, P = 2(L+B)**

length = 6

breadth = 4

print("Area of rectangle:", length \* breadth, "Perimeter of rectangle:", 2 \* (length + breadth))

Output: Area of rectangle: 24 Perimeter of rectangle: 20

**20 Calculate area of a circle. A = 22/7 \* R \* R**

radius = 7

print("Area of circle:", (22/7) \* radius \* radius)

Output: Area of circle: 154.0

**21.Calculate area of a triangle. A = H\*L/2**

height = 5

base = 10

print("Area of triangle:", (height \* base) / 2)

Output: Area of triangle: 25.0

**22.Calculate net salary where net salary = gross salary + allowance – deduction.**

gross\_salary = 50000

print("Net Salary:", gross\_salary + (0.1 \* gross\_salary) - (0.03 \* gross\_salary))

Output: Net Salary: 53500.0

**23.Calculate net sales where net sales = gross sales – 10% discount of gross sales.**

gross\_sales = 100000

print("Net Sales:", gross\_sales - (0.1 \* gross\_sales))

Output: Net Sales: 90000.0

**24.Calculate average of three subjects along with their total.**

marks = [85, 90, 95]

print("Total Marks:", sum(marks), "Average Marks:", sum(marks) / len(marks))

Output: Total Marks: 270 Average Marks: 90.0

**25. Swap two values**

a = 10

b = 20

a, b = b, a

print("Swapped Values:", a, b)

Output: Swapped Values: 20 10