



# INDIAN SCHOOL AL WADI AL KABIR

<b>Class: XI Comp. Sci.</b>	<b>Department: Computer Science</b>	<b>Date of submission:17/10/2022</b>
<b>Worksheet No:8</b>	<b>Topic: Python Basic Programs Practical (11-20)</b>	<b>Note: Programs should be written on your practical record note book</b>

1. Write a Python program to input a basic salary of an employee and calculate the Special Incentive based on the following criteria:

Basic Salary	Special Incentive
Less than 10000	15 % of Basic Salary
Between 10000 and 19999	25 % of Basic Salary
Between 20000 and 49999	35 % of Basic Salary
Otherwise	50 % of Basic Salary

2. Write a program to input 3 subject marks and calculate total, percentage and also grade .

Percentage	grade
$\geq 90$	A
80 - 89	B
70 – 79	C
60 – 69	D
$< 60$	E

3. Write a Python program to get input distance and print fare for the passenger according to:

DISTANCE	FARE (in Rs.)
Upto 50km	12 per km
51 – 75	10 per km
76 – 100	8 per km
Above 100km	6 per km

4. Write a Python program to input annual salary of an employee, calculate and display the tax amount based on the following criteria:

Annual Salary	Tax Amount
Rs. 10,00,000 and above	18 % of Annual Salary
Between 5,00,000 and 9,99,999	15 % of Annual Salary
Between 3,00,000 and 4,99,999	12 % of Annual Salary
Otherwise	10 % of Annual Salary

5. Write a Menu driven program to perform the following:
1. To check whether a No. is multiple of 5 and 8 or not.
  2. To find elder person in 3 persons.
- \*. Invalid choice.
6. Write a Menu driven program to perform the following:
1. To check a character is vowel or not.
  2. To input an arithmetic operator and two numbers and perform the operation based on the input operator.
- \*. Invalid choice.
7. Write a Menu driven program to perform the following:
1. To find and display factors of the given number.
  2. To display the factorial of a given number.
- \*. Invalid choice.
8. Write a Menu driven program to perform the following:
1. To check whether a given number is prime number or not.
  2. To display the first N numbers of a Fibonacci number sequence.
- \*. Invalid choice.
9. Write a Menu driven program to perform the following:
1. To display the sum of digits of a given number.
  2. To display whether the given number is Armstrong number or not.
- \*. Invalid choice.

10. Write a Menu driven program to perform the following:

1. To find sum of the series :  $x - x^2 / 2 + x^3 / 3 - x^4 / 4 + \dots \pm x^N / N$
2. To find sum of the series :  $x / 2! + x^2 / 3! + x^3 / 4! + x^4 / 5! + \dots + x^N / N!$
- \*. Invalid choice.

**Note : Write these 10 Exercises with coding in your Practical Note Book and submit to your Computer Science Teacher on or before 17/10/2022.**