INDIAN SCHOOL AL WADI AL KABIR

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| **Class: 11th (CS)** | **Department: Computer Science** | **Date of submission:**  **03-08-2025** |
| **Execute all programs on Python editor** | **Topic: Python Programs** | **Note: To be written in the record book** |

1. Write a program to input principal , rate and time and calculate simple interest.

2. Write a Python program to input time in seconds and convert into hours, minutes and seconds

and print it in form : hours ,mins and seconds.

3. Write a program to accept a number from the user and display whether it is an even or odd

4. Write a Python program to input an arithmetic operator and two numbers and perform the

operation based on the input operator.

5. 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

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

Percentage grade

>=90 A

80 – 90 B

70 – 80 C

60 – 70 D

<60 E

7. Write a program to find the roots of a quadratic equation where the co-efficient a, b, and c are

inputted by the user.

8. Write a program to enter a number and

a. Find the sum of digits of the number

b. Reverse the number

9. Write a program to print the following patters:

a.

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\* \*

\* \* \*

\* \* \* \*

b.

P Q R S T

P Q R S

P Q R

P Q

P

10. Write a program to check whether a number entered by a user is palindrome or not.

11. 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.

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

1. To check whether a given number is prime number of not.

2. To display the first N numbers of a Fibonacci number sequence.

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

1. To display the sum of odd digits of a given number.

2. To display whether the given 3-digit number is Armstrong number or not.