

Lab # 03 Tasks

QNo.01: Problem (Statement)

Develop a calculator which is able to handle two numbers. The calculator can perform addition, subtraction, multiplication, and division.

Lab # 03 Tasks

QNo.01: Problem (Analysis)

- ❖ Ask the user to enter two numbers
- ❖ Then ask to enter the operator (+, -, /, *)
- ❖ Calculate the result
- ❖ Display the result

Note: use if else-if else statement for solving this problem.

Lab # 03 Tasks

Problem (Output)

```
Enter first number:      400
Enter second number:    200
Enter operator (+,-,/,*) : +
400 + 200 = 600
```

```
Enter first number:      300
Enter second number:    400
Enter operator (+,-,/,*) : *
300 + 400 = 1200
```

```
Enter first number:      500
Enter second number:    100
Enter operator (+,-,/,*) : /
500 + 100 = 100
```

Lab # 03 Tasks

QNo.02: Problem (Statement)

Develop a calculator which is able to handle two numbers. The calculator can perform addition, subtraction, multiplication, and division.

Lab # 03 Tasks

QNo.02: Problem (Analysis)

- ❖ Ask the user to enter two numbers
- ❖ Then ask to enter the operator (+, -, /, *)
- ❖ Calculate the result
- ❖ Display the result

Note: use switch statement for solving this problem.

Lab # 03 Tasks

Problem (Output)

```
Enter first number:      400
Enter second number:    200
Enter operator (+,-,/,*) : +
400 + 200 = 600
```

```
Enter first number:      300
Enter second number:    400
Enter operator (+,-,/,*) : *
300 + 400 = 1200
```

```
Enter first number:      500
Enter second number:    100
Enter operator (+,-,/,*) : /
500 + 100 = 100
```

Lab # 03 Tasks

QNo.03: Problem –3 (Statement)

Write a program that takes grade as an input from the user and depending upon the grade display the message. Following is the criteria:

- If grade is 'A' then display “Excellent”
- If grade is 'B' then display “Very Good”
- If grade is 'C' then display “Good”
- If grade is 'D' then display “Poor”
- If grade is 'F' then display “Fail”

Note: use switch statement for solving this problem.

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QNo.03: Problem –3 (Output)

```
Please enter the student's grade :    A  
Excellent
```

```
Please enter the student's grade :    F  
Fail
```

```
Please enter the student's grade :    H  
Enter grade from A to D or F
```

What will happen if user enters lower letter?

Lab # 03 Tasks

QNo.04: Problem –4 (Output)

Write a program that takes grade as an input from the user and depending upon the grade display the message. Following is the criteria:

- If grade is 'A' or 'a' then display “Excellent”
- If grade is 'B' or 'b' then display “Very Good”
- If grade is 'C' or 'c' then display “Good”
- If grade is 'D' or 'd' then display “Poor”
- If grade is 'F' or 'f' then display “Fail”

Note: use switch statement for solving this problem.

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QNo.04: Problem –4 (Output)

```
Please enter the student's grade :    A  
Excellent
```

```
Please enter the student's grade :    f  
Fail
```

```
Please enter the student's grade :    H  
Enter grade from A to D or F
```

Lab # 03 Tasks

Problem –5 (Statement)

In a company, there are deductions from the salary of the employees for a fund. The deductions rules are as follows:

- If salary is less than Rs.10,000 then no deduction
- If salary is equal to or more than Rs.10,000 and less than Rs.20,000 then deduct Rs.1,000 as fund
- If salary is equal to or more than 20,000 then deduct 7 % of the salary for fund
- Input salary from user and after appropriate deduction show the net payable amount.