

Practical No - 1

Aim -

- Q.1) A) write a python program to add two numbers.
- Q.1) B) write a python program to subtract two numbers.
- Q.1) C) write a python program to multiply two numbers.

Software required -

Jupyter anaconda (Notebook)



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Practical No - 2.

Aim - write a python program to add two numbers

Learning objective - To learn basics of python cycle and programming style (syntax).

Learning outcomes -

software required - Jupyter Anaconda (Notebook)

Theory : The input function allows us to take an input from the user.

python operators : operators are used to perform operations on variables and values.

python Arithmetic operators -

Arithmetic operators are used with numeric values to perform common.



| operators | Name | Example | output |
|-----------|---|---------|--------|
| + | Addition | $X+Y$ | 8 |
| - | Subtraction | $X-Y$ | 2 |
| * | Multiplication | $X*Y$ | 15 |
| / | Division | X/Y | 1.66 |
| %. | Modulus | $X\%Y$ | 2 |
| ** | Exponential (Power) | $X**Y$ | 125 |
| // | Floor division (Round up the result to nearest whole no.) | | |

Python assignment operator -

Assignment operators are used to assign values to variables.

| operator | Example | same as |
|----------|---------|----------|
| = | $X=5$ | $X=5$ |
| += | $X+=3$ | $X=X+3$ |
| -= | $X-=3$ | $X=X-3$ |
| *= | $X*=3$ | $X=X*3$ |
| /= | $X/=3$ | $X=X/3$ |
| %= | $X\%=3$ | $X=X\%3$ |
| //= | $X//=3$ | $X=X//3$ |
| **= | $X**=3$ | $X=X**3$ |

Python casting -

Casting in Python is done using constructor functions:

→ `int()` - constructor of an integer number from an integer literal, a float literal.



C by rounding down to the previous whole number) or a string literal (providing the string represents a whole number).

→ Float() - constructs a float number from an integer literal or a string literal. (providing the string represents a whole number).

→ str() - constructs a string from a wide variety of data types, including strings, integers, literals and float literals.

program code -

Q.1. A) A Python program to add two numbers.

```
a = int(input("Enter a number "))
b = int(input("Enter a number "))
c = a + b
print("Addition of a {} and b {} is c {}".format(a, b, c))
```

Q.1. B) A Python program to subtract two numbers.

```
p = int(input("Enter the value of p"))
q = int(input("Enter the value of q"))
r = p - q
print("Subtraction of p {}, q {} is r {}".format(p, q, r))
```

Conclusion - Thus I have studied to take input from the user, cast the data process the date and display result to the user.





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Q. 1. c) A program for multiplication of two numbers.

```
u = int(input("Enter the value of u"))
```

```
v = int(input("Enter the value of v"))
```

```
w = u * v
```

```
print("Multiplication of u & v is w")
```

```
format(u, v, w)
```

Conclusion -

Thus I have studied to take input from the user, cast the data, process the data and display result to the user.