

10/10/23

CHAPTER-2 FUNCTIONS

Q WAP to input two numbers and find sum and difference.

```
Sol. def cal(x, y):  
    s = x + y  
    d = x - y  
    return (s, d)
```

```
sum, diff = cal(5, 2)  
print("Sum is", sum)  
print("Difference is", diff)
```

Q WAP to input a string and find length using user-defined function.

```
Sol. def length(s):  
    l = 0  
    for _ in s:  
        l += 1  
    return l
```

```
String = input("Enter a string: ")  
print("Length is", length(String))
```

Q WAP to input a number and check the following condition:

- (i) even or odd
- (ii) positive or negative
- (iii) find factorial

```
Sol. def even-or-odd(x):  
    if x % 2 == 0:  
        print(x, "is even")  
    else:  
        print(x, "is odd")
```



```

def pos_or_neg(x):
    if x > 0:
        print(x, "is positive")
    elif x < 0:
        print(x, "is negative")
    else:
        print(x, "is 0")
        print(0)

```

```

def fact(x):
    fact = 1
    for i in range(2, x+1):
        fact *= i

```

```

n = int(input("Enter a number: "))
print("Choices:")
print("1. Even or odd")
print("2. Positive or negative")
print("3. Factorial")

```

~~input~~ \notin

```

choice = int(input("Enter your choice: "))

```

```

if choice == 1:

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```

    even_or_odd(n)

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elif choice == 2:

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```

    pos_or_neg(n)

```

```

elif choice == 3:

```

```

    pos_or_neg(n)

```

```

else:

```

```

    print("Wrong choice")

```