

WELCOME!!

```
print("Day-09")
```

DAY-09

Functions

What is a function?

A collection of statements acting as a single unit

**It is a logical grouping of
related statements.**

Why should we use them?

COPE
REUSE

str()

input()

eval()

print()

mainly two types.....

- 1. IN BUILT**
- 2. USER-DEFINED**

We want the same code be
used again and again.

what are the benefits?

many to list.....

- Avoid repetition of codes.
- Increases program readability.

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- **Divide a complex problem into simpler ones.**
- **Reduces chances of error.**

- **Avoid repetition of codes.**
- **Increases program readability.**
- **Divide a complex problem into simpler ones.**
- **Reduces chances of error.**
- **Modifying a program becomes easier by using function.**

Components of Function

A function usually has three components. They are:

- 1. Function Prototype/Declaration**
- 2. Function Definition**
- 3. Function Call**

function declaration

1. Function Prototype/Declaration

Function declaration is a statement that informs the compiler about

- Name of the function
- Type of arguments
- Number of arguments
- Type of Return value

But in python,

Name of the function

Type of arguments

Number of arguments

Type of Return value

function definition

2. Function Definition

Function definition consists of the body of function.

The body consists of block of statements that specify what task is to be performed.

function call

3. Function call

**A function call can be made by using a
call statement.**

**A function call statement consists of
function name and required argument
enclosed in round brackets.**

**When a function is called,
the control is transferred
to the function definition.**

recap.....

- Function

Prototype/Declaration

- Function Definition
- Function Call

let us write some functions

program#1

finding factorial

program #2

greeting

user

program#3

check leap year

program#4

find **nth** root

program# 5

string reverse

program#6

check for all

vowels

doubts.....?

ask in chat & group....

**keep calm,
wear mask&
study hard.**

JANHIT ME JARI

AKASH & GOPAL

have a nice day.....

THANK
YOU!