**Function catgories**

**T**

**y**

**p**

**e**

**\_**

**1**

In

[

]:

In

[1]:

hello, good morning

There

are

4

catagories

of

function

1

)

Functon

without

parameters

**and**

fuction

without

**return**

type

Syntax

:

**def**

funname

():

statement

**def**

greetings

():

*# function define*

print

(

"hello, good morning"

)

greetings

()

*#calling a function*

In

[2]:

hello, good morning

jk

v

jm

hello, good morning

jk

v

jm

hello, good morning

jk

v

jm

hello, good morning

jk

v

jm

hello, good morning

jk

v

jm

hello, good morning

jk

v

jm

hello, good morning

jk

v

jm

hello, good morning

jk

v

jm

hello, good morning

jk

v

jm

hello, good morning

**def**

hello

():

print

(

"hello, good morning"

)

print

(

"jk"

)

print

(

"v"

)

print

(

"jm"

)

**for**

i

**in**

range

(

1

,

11

):

hello

()

print

()

factorial = 24

In

[6]:

jk

v

jm

Enter a number: 4

**def**

findFactorial

():

f

**=**

1

n

**=**

int

(

input

(

"Enter a number: "

))

**for**

i

**in**

range

(

1

,

n

**+**

1

):

f

**\*=**

i

print

(

"factorial = "

,

f

)

findFactorial

()

# Type\_2

In

[

]:

In

[8]:

6

2

)

Function

**with**

parmeters

**and**

function

without

**return**

types

**def**

funname

(

parameters

):

statements

**def**

sum

(

num1

,

num2

,

num3

):

ans

**=**

num1

**+**

num2

**+**

num3

print

(

ans

)

sum

(

1

,

2

,

3

)

In

[10]:

Enter a number: 2

**def**

sum

(

num1

,

num2

):

ans

**=**

num1

**+**

num2

print

(

ans

)

**def**

mul

(

num1

,

num2

):

ans

**=**

num1

**\***

num2

print

(

ans

)

*#calling a function*

a

**=**

int

(

input

(

"Enter a number: "

))

s

**=**

int

(

input

(

"Enter a number: "

))

sum

(

a

,

s

)

mul

(

a

,

s

)

Enter a number: 3

5

6

Wlcomecm abc your contact is 123456

In

[12]:

Enter your email: abc@gmail.com

mydata

**=**

{

"abc@gmail.com"

:{

"username"

:

"abc"

,

"contact"

:

"123456"

},

"pqr@gmail.com"

:{

"username"

:

"pqr"

,

"contact"

:

"987654"

},

"xyz@gmail.com"

:{

"username"

:

"xyz"

,

"contact"

:

"546383"

}

}

**def**

login

(

email

):

**if**

email

**in**

mydata

.

keys

():

username

**=**

mydata

[

email

][

'username'

]

contact

**=**

mydata

[

email

][

'contact'

]

print

(

"Wlcomecm "

,

username

)

print

(

"your contact is"

,

contact

)

**else**

:

print

(

"invalid email"

)

*#calling portion*

email\_address

**=**

input

(

"Enter your email: "

)

login

(

email\_address

)

# Type\_3

In

[

]:

3

)

Function

without

parameters

**and**

**with**

**return**

type

**def**

funname

():

**return**

statement

*#calling portion*

var

**=**

funname

()

**or**

print

(

funname

())

Even

In

[17]:

Enter a number: 4

*#Even number*

**def**

isEven

():

n

**=**

int

(

input

(

"Enter a number: "

))

**if**

n

**%**

2

**==**

0

:

**return**

"Even"

**else**

:

**return**

"Odd"

print

(

isEven

())

# Type\_4

In

[

]:

In

[20]:

Enter a number: 3

4

)

function

**with**

**return**

type

**and**

function

**with**

parameters

**def**

funname

():

**return**

statement

**def**

isEven

(

n

):

**if**

n

**%**

2

**==**

0

:

**return**

"Even"

**else**

:

**return**

"Odd"

num

**=**

int

(

input

(

"Enter a number: "

))

print

(

isEven

(

num

))

Odd