In

[63]:

\*

**for**

i

**in**

range

(

1

,

6

):

**for**

j

**in**

range

(

1

,

i

**+**

1

):

print

(

"\*"

,

end

**=**

" "

)

print

()

n

**=**

5

**for**

i

**in**

range

(

n

):

**for**

j

**in**

range

(

1

,

n

):

print

(

"\*"

,

end

**=**

" "

)

n

**-=**

1

print

()

* \*
* \* \*
* \* \* \*
* \* \* \* \*
* \* \* \*
* \* \*
* \* \*

In

[7]:

1

**for**

i

**in**

range

(

1

,

6

):

**for**

j

**in**

range

(

1

,

i

**+**

1

):

print

(

i

,

end

**=**

" "

)

print

()

1. 2
2. 3 3
3. 4 4 4
4. 5 5 5 5

In

[6]:

1

**for**

i

**in**

range

(

1

,

6

):

**for**

j

**in**

range

(

1

,

i

**+**

1

):

print

(

j

,

end

**=**

" "

)

print

()

1 2

1 2 3

1 2 3 4

1. 2 3 4 5 In [10]:

1

n

**=**

1

**for**

i

**in**

range

(

1

,

6

):

**for**

j

**in**

range

(

1

,

i

**+**

1

):

print

(

n

,

end

**=**

" "

)

n

**+=**

1

print

()

1. 3

4 5 6

7 8 9 10

11 12 13 14 15 In [12]:

A

n

**=**

65

**for**

i

**in**

range

(

1

,

6

):

**for**

j

**in**

range

(

1

,

i

**+**

1

):

print

(

chr

(

n

)

,

end

**=**

" "

)

n

**+=**

1

print

()

B C

D E F

G H I J

K L M N O

In

[15]:

Enter number: 7

num

**=**

int

(

input

(

"Enter number: "

))

**for**

i

**in**

range

(

1

,

num

**+**

1

):

print

(

i

)

1

2

3

4

5

6

7

In

[22]:

Enter a number: 4

*#print tables upto the given number*

num

**=**

int

(

input

(

"Enter a number: "

))

**for**

i

**in**

range

(

1

,

num

**+**

1

):

**for**

j

**in**

range

(

1

,

11

):

print

(

i

,

"\*"

,

j

,

"="

,

i

**\***

j

)

print

()

1 \* 1 = 1

1 \* 2 = 2

1 \* 3 = 3

1 \* 4 = 4

1 \* 5 = 5

1 \* 6 = 6

1 \* 7 = 7

1 \* 8 = 8

1 \* 9 = 9

1. \* 10 = 10
2. \* 1 = 2

2 \* 2 = 4

2 \* 3 = 6

2 \* 4 = 8

2 \* 5 = 10

2 \* 6 = 12

2 \* 7 = 14

2 \* 8 = 16

2 \* 9 = 18

1. \* 10 = 20
2. \* 1 = 3

3 \* 2 = 6

3 \* 3 = 9

3 \* 4 = 12

3 \* 5 = 15

3 \* 6 = 18

3 \* 7 = 21

3 \* 8 = 24

3 \* 9 = 27

1. \* 10 = 30
2. \* 1 = 4

4 \* 2 = 8

4 \* 3 = 12

4 \* 4 = 16

4 \* 5 = 20

4 \* 6 = 24

4 \* 7 = 28

4 \* 8 = 32

4 \* 9 = 36

4 \* 10 = 40

In

[28]:

Enter a number: 5

*#factorial value*

*# 5 = 5\*4\*3\*2\*1*

num

**=**

int

(

input

(

"Enter a number: "

))

f

**=**

1

**for**

i

**in**

range

(

1

,

num

**+**

1

):

f

**\*=**

i

print

(

"Factorial of"

,

num

,

"is: "

,

f

)

Factorial of 5 is: 120

**strings**

In

[30]:

PYthon

*#string: collectio of characters*

name

**=**

"PYthon"

print

(

name

)

print

(

len

(

name

))

print

(

name

.

lower

())

print

(

name

.

upper

())

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In

[32]:

*#multi strings or docuent strings*

menu

**=**

"""

MENU

press 1 for apple

press 2 for banana

"""

print

(

menu

)

MENU press 1 for apple press 2 for banana

In

[33]:

contact

**=**

input

(

"Enter your number: "

)

print

(

"your number is: "

,

contact

)

Enter your number: 123457asd your number is: 123457asd

In

[34]:

Enter your number: 12346asd

contact

**=**

input

(

"Enter your number: "

)

**if**

contact

.

isdigit

():

print

(

"valid number"

)

**else**

:

print

(

"invalid number"

)

invalid number

In [42]:

Enter your name: Anjali

*#task:*

user\_name

**=**

"Anjali"

email

**=**

"a@gmail.com"

pswd

**=**

"password"

u\_name

**=**

input

(

"Enter your name: "

)

u\_email

**=**

input

(

"Enter your email: "

)

u\_pswd

**=**

input

(

"Enter your password: "

)

**if**

u\_email

**!=**

email

**and**

u\_pswd

**!=**

pswd

:

print

(

"invalid email and password"

)

**else**

:

**if**

u\_email

**==**

email

:

**if**

u\_pswd

**==**

pswd

:

print

(

"welcome"

,

user\_name

)

**else**

:

print

(

"invalid password"

)

**else**

:

print

(

"invalid email"

)

Enter your email: a@gmail.com Enter your password: password welcome Anjali

In

[53]:

Enter your name: heena

*#task: accept user name, email, password,and contact from user*

*#user name must be 4 or more charecters*

*#password must be 8 charecters*

*#contact no mus be 10 digit*

u\_name

**=**

input

(

"Enter your name: "

)

u\_email

**=**

input

(

"Enter your email: "

)

u\_pswd

**=**

input

(

"Enter your password: "

)

u\_contact

**=**

input

(

"Enetr your contact number: "

)

**if**

len

(

u\_name

)

**>=**

4

**and**

len

(

u\_pswd

)

**==**

8

**and**

len

(

u\_contact

)

**==**

10

:

print

()

print

(

"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

print

(

"name:"

,

u\_name

)

print

(

"email:"

,

u\_email

)

print

(

"password: "

,

u\_pswd

)

print

(

"contact no.: "

,

u\_contact

)

**else**

:

print

(

"invalid name or password or contact no."

)

Enter your email: h@gmail.com

Enter your password: 12234 Enetr your contact number: 1234567890 invalid name or password or contact no.

In

[57]:

p

*#indexing*

name

**=**

"python"

print

(

name

[

0

])

print

(

name

[

**-**

1

])

print

(

name

[

0

:

4

])

print

(

name

[

**-**

2

:])

print

(

name

[

**-**

4

:

**-**

1

])

print

(

name

[

**-**

4

:])

print

(

name

[

1

:

6

])

print

(

name

[

0

:

6

])

n pyth on tho thon ython python

In [ ]: