Task1

```
Step1
----------------------
01 02 03 04 05 06 07
08 09 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31 32 33 34 35
----------------------
Step2
---------------------
01 02 03 04 05 06 07
08 09 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
---------------------
Step3
---------------------
01 02 ** 04 05 ** 07
08 ** 10 11 ** 13 14
** 16 17 ** 19 20 **
22 23 ** 25 26 ** 28
29 ** 31                -> 3 multiples **
-----------------------------------------
Step4
---------------------------------------
01 () ** () 05 ** 07
() ** () 11 ** 13 ()
** () 17 ** 19 () **
() 23 ** 25 () ** ()
29 ** 31                -> 2 multiples ()
---------------------------------------
Step5
---------------------------------------
01 () ** () [] ** 07
() ** () 11 ** 13 ()
** () 17 ** 19 () **
```

```
() 23 ** [] () ** ()
29 ** 31                  -> 5 multiples []
-----------------------------------------
Step6
-----------------------------------------
01 () ** () [] ** 07
() ** () 11 ** 13 ()
## ## ## ## ## ## ##
() 23 ** [] () ** ()
29 ** 31                    -> 3rd row ##
-----------------------------------------
Step7
-----------------------------------------
01 () ** () [] ** 07
() ** () 11 ** 13 ()
## ## ## ## ## ## ##
() {} ** [] () ** ()
{} ** {}                    -> higher than 15 {}

-------------------------------------------------
Step8
-------------------------------------------------
:: () ** () [] ** ::
() ** () :: ** :: ()
## ## ## ## ## ## ##
() {} ** [] () ** ()
{} ** {}                          -> lower than 15 ::
-------------------------------------------------
Step8
-------------------------------------------------
:: || ** () [] ** ::
() || () :: ** :: ()
## || ## ## ## ## ##
() || ** [] () ** ()
{} || {}                       -> 2nd column ||
```

In [2]:
```
# Task1 Answer
s = 1
for r in range(1,6):
    for c in range(1,8):
        if s>31:
            break
        elif c==2:
            print("{}".format("||"),end=" ")
        elif r==3:
            print("{}".format("##"),end=" ")
        elif s%3==0:
            print("{}".format("**"),end=" ")
        elif s%2==0:
            print("{}".format("()"),end=" ")
        elif s%5==0:
            print("{}".format("[]"),end=" ")
        elif s>15:
            print("{}".format("{}"),end=" ")
        else:
            print("{}".format("::"),end=" ")
        s+=1
    print(end="\n")
```

```
:: || ** () [] ** ::
() || () :: ** :: ()
## || ## ## ## ## ##
() || ** [] () ** ()
{} || {}
```

Task2:-

---

string = “ranga phani srilalitha sathish raja”

Output:-

ranga
raja

In [3]:
```
string = "ranga phani srilalitha sathish raja"
for i in string.split():
    if i.startswith("r"):
        print(i)
```

```
ranga
raja
```

Task3:-

---

string = “ranga phani srilalitha sathish raja”

Output:-

ranga
srilalitha
raja

In [5]:
```
string = "ranga phani srilalitha sathish raja"
for i in string.split():
    if i.endswith("a"):
        print(i)
```

```
ranga
srilalitha
raja
```

Task4:

String = “banana 33 apple 66 greps 88”
Output:-

Totla :- 187

In [7]:
```
String = 'banana 33 apple 66 greps 88'
sum1 = 0
for i in String.split():
    if i.isdigit():
        sum1 += int(i)
print(sum1)
```

```
187
```

Task5

```
---------------------------
l = [hai@gmail.com, hai@apssdc.in, hello@gmail.com, hello@outlook.info]
output
.com
```

In [9]:
```
a = ['Google.com','python.org','gmail.com']
d = {}
for i in a:
    if i.split('.')[-1] in d:
        d[i.split('.')[-1]]+=1
    else:
        d[i.split('.')[-1]]=1
for i in d.keys():
    if d[i]== max(d.values()):
        print(i)
        a = ['Google.com','python.org','gmail.com']
# d = {}
# s = []
# for i in a:
#     s = i.split('.')
#     if s[-1] in d:
#         d[s[-1]]+=1
#     else:
#         d[s[-1]]=1
#     s.clear()
# for i in d.keys():
#     if d[i]== max(d.values()):
#         print(i)
```

```
com
```

1.Create marks.txt

a. Define a function to generate 1000 members student marks using random method

b. Define a function to display all students marks

c. Define a function to find failed students count

d. Define a function to find passed students count

e. Define a function to find students who got more than 80% count

In [ ]:
```
1
```

In [ ]:
```
1
```

In [ ]:
```
1
```