# Practical 5:-

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#### Pattern 1:-

```
In [6]: size = int(input("Enter size: "))
i = 0
while i < size:
    # 65 is the ASCII value of 'A'
    ch = 65 + i
        j = 0
    while j < (size - i):
        print(chr(ch), end = " ")
        j += 1
    i += 1
    print()</pre>
A A A A A A A A A A A
B B B B B B B B
C C C C C C C C C C
```

#### Pattern 2:-

```
In [9]: size = int(input("Enter size: "))
    count, i = 1, 0
    while i < size:
        j = 0
        while j < (i + 1):
            print(count, end = " ")
            count += 1
            j += 1
        i += 1
        print()</pre>
```

```
1
2 3
4 5 6
7 8 9 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 36
37 38 39 40 41 42 43 44 45
46 47 48 49 50 51 52 53 54 55
```

#### Pattern 3:-

```
In [11]:
    size = int(input("Enter size: "))
    i = 0
    while i < size:
        j = 0
        while j < size:
            if i%2 == 0 and j%2 != 0:
                print(" ", end = " ")
        elif i%2 != 0 and j%2 == 0:
                print(" ", end = " ")
        else:
                print("*", end = " ")
                j += 1
        i += 1
        print()</pre>
```

### Pattern 4:-

```
In [12]: size = int(input("Enter size: "))
i = 0
while i < size:
    # logic to print blank spaces
    print(" " * (size - (i+1)), end = "")
    # logic to print stars along with spaces
    print("* " * (i+1))
    i += 1</pre>
```

### Pattern 5:-

```
In [13]: size = int(input("Enter size: "))
i = 0
while i < size:
    j = 0
while j < (i + 1):
    if j == 0 or j == i or i == 0 or i == size-1:
        print("*", end = " ")</pre>
```

## Pattern 6:-

```
In [2]: size = int(input("Enter size: "))

i = 0
while i < size:
    if i%2 == 0:
        print("*" * size)
    else:
        print(" " * (size-1) + "*")
    i += 1</pre>
```

### Pattern 7:-

```
In [3]: size = int(input("Enter size: "))
i = 0
while i < size:
    count = 1
    j = 0
    while j < (i + 1):
        print(count, end = " ")
        count += 1
        j += 1
    i += 1
    print()</pre>
```

```
1 2 3 4 5 6 7 8 9 10
```