Practical 4:-

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Pattern 1:-

```
In [1]: size = int(input("Enter size: "))
      for i in range(size):
         # 65 is the ASCII value of 'A'
         ch = 65 + i
         for j in range(size - i):
             print(chr(ch), end = " ")
         print()
     B B B B B B B B
     DDDDDD
     EEEEEE
     FFFFF
     GGGG
     H H H
     ТТ
```

Pattern 2:-

```
In [2]: size = int(input("Enter size: "))
        c = 1
        for i in range(size):
            for j in range(i + 1):
                print(c, end = " ")
                c += 1
            print()
       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 [3]: size = int(input("Enter size: "))
for i in range(size):
    for j in range(size):
        if i%2 == 0 and j%2 != 0:
            print(" ", end = " ")
```

```
elif i%2 != 0 and j%2 == 0:
    print(" ", end = " ")
    else:
        print("*", end = " ")
print()
```

Pattern 4:-

Pattern 5:-

Pattern 6:-

Pattern 7:-

```
In [7]: size = int(input("Enter size: "))
        for i in range(size):
            count = 1
            for j in range(i+1):
                print(count, end = " ")
                count += 1
            print()
       1
       1 2
       1 2 3
       1 2 3 4
       1 2 3 4 5
       1 2 3 4 5 6
       1 2 3 4 5 6 7
       1 2 3 4 5 6 7 8
       1 2 3 4 5 6 7 8 9
       1 2 3 4 5 6 7 8 9 10
In [ ]:
```