

In [1]: *#Answer 1*

```

i = 1
while i <= 10:
    print(i, end = "\t")
    i = i+1

```

1 2 3 4 5 6 7 8 9 10

In [2]: *#Answer 2*

```

for i in range(10):
    for j in range(10):
        if(i>j):
            print(" ", end = " ")
        else:
            print("*", end = " ")
    print()

```

```

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      * * * *
       * * *
        * *
         *

```

In [3]: *#Answer 3*

```

for i in range(10):
    for j in range(10-i):
        print(" ", end = " ")
    for k in range(2*i+1):
        print("*", end = " ")
    for l in range(10-i):
        print(" ", end = " ")
    print()

```

```

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      * * * *
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```

In [1]: *#Answer 4*

```

for i in range(10):
    for j in range(10-i-1):
        print(" ", end = "")
    for k in range(2*i+1):

```

```
print(" ", end = "")
for l in range(10-i-1):
    print(" ", end = "")
print()

for i in range(9):
    for j in range(i+1):
        print(" ", end = "")
    for k in range(2*(9-i)-1):
        print(" ", end = "")
    for l in range(i+1):
        print(" ", end = "")
    print()
```

[illegible]

```
In [2]: #Answer 5
```

```
import random

number = random.randint(0,1000)
guesses = 0

print("Guess the number")

while guesses < 20:
    guess = int(input())
    guesses = guesses+1
    if guess < number:
        print("Try a bigger number")
    if guess > number:
        print("Try a smaller number")
    if guess == number:
        print("Bingooo!!")
        break

if guesses < 10:
    print("wonderful job")
elif guesses < 20:
    print("Good job")
else:
    print("Try to do better next time")
```

```
Guess the number
230
Try a bigger number
500
Try a smaller number
900
Try a smaller number
700
Try a smaller number
300
Try a bigger number
400
Try a smaller number
350
Try a bigger number
370
Try a smaller number
360
Try a smaller number
355
Try a smaller number
352
Try a smaller number
351
Bingooo!!
Good job
```

In []: