

Assignment 4

1. Write a program to find the Vehicle based on luckyDigit?

Program:

```
Lucky, Num = map(int, input("Enter a Number: ").split())
Sum = 0
Org = Num
while (Num != 0 or Sum > 9):
    if Num == 0:
        Num = Sum
        Sum = 0
    rem = (Num % 10)
    Sum = Sum + rem
    Num = (Num // 10)
if Lucky == Sum:
    Lucky = Lucky + 9
print("Suggested Number is {}".format(Org + abs(Lucky - Sum)))
```

Output:

Enter a Number: 9 3456

Suggested Number is 3465

2a. Write a Program to print the pattern

```
def numpat(n):
```

```
    num = 1
```

```
    for i in range(0, n):
```

```
        num = 1
```

```
        for j in range(0, i+1):
```

```
            print(num, end=" ")
```

```
            num = num + 1
```

```
        print("\r")
```

```
n = 4
```

```
numpat(n)
```

Output

```
1
```

```
1 2
```

```
1 2 3
```

```
1 2 3 4
```

3b.

```
def pattern(n):
```

```
    for i in range(1,n+1,1):
```

```
        for j in range(i,n,1):
```

```
            print("*",end=" ")
```

```
        for k in range(1,i+1,1):
```

```

        print("#",end=" ")
    for p in range(1,i,1):
        print("#",end=" ")
    for l in range(i,n,1):
        print("*",end=" ")
    print()

```

```

n=int(input("Enter a number:"))
pattern(n)

```

Output

Enter a number:4

```

* * * # * * *
* * # # # * *
* # # # # *
# # # # #

```