PROBLEM SOLVING:

Agenda:

- i) Rev a digit ii) Pattern printing iii) Hollow diamond pattern
- iv) Normel diamond
- v) Revision

Q1. Reverse the given digit.

n = 3251

s = str (3251) >> print (int (s[::-1]))

i)
$$n = 0$$
 $d = 3$
 $n \times 10 + d$

ii)
$$n = 3$$

 $d = 2$
Ans: 32 \Rightarrow 3x10 + 2 = 32

$$n = 32$$
 $d = 5$

$$|v|$$
 $n = 325$ $d = 1$

$$x_{ns} = 3251$$

<u>Code</u>: n = 1234

while
$$n > 0$$
:

dig = $n^{-1/2}$ 10

$$n = n // 10$$
 $rev = rev \times 10 + dig$
 $print(rev)$

.....

* Pattern

.....

* Pattern

$$i$$
 Stars Spaces

1 AAXX A 5 (n-i+1) 0 (i-1)

2 AXX A 4 (n-i+1) 1 (i-1)

3 AXX A 5 (n-i+1) 2 (i-1)

4 AXX A 1 (n-i+1) 3 (i-1)

5 AXX A 1 (n-i+1) 4 (i-1)

.....

is
$$\frac{\text{Stars}}{1}$$
 $\frac{\text{Spaces}}{2}$ $\frac{\text{Spaces}}{1}$ $\frac{\text{Spaces}}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{4}$

n = 3