1. Which of the following will raise a value error in python?

Ans – D

2. What will be the output of round (3.567)?

Ans – C

3. How is the function pow (a, b, c) evaluated in python?

Ans – B

4. What will be the output of print(type(type(int))) in python 3?

Ans – A

5. What will be the output of Ord (chr (65))?

Ans – C

6. What is called when a function is defined inside a class?

Ans – D

7. What will be the output of all ([1, 0, 5 ,7])?

Ans – B

8. Is the output of the function abs () the same as that of the function math. Fabs ()?

Ans – B

9. Select all correct float numbers in python?

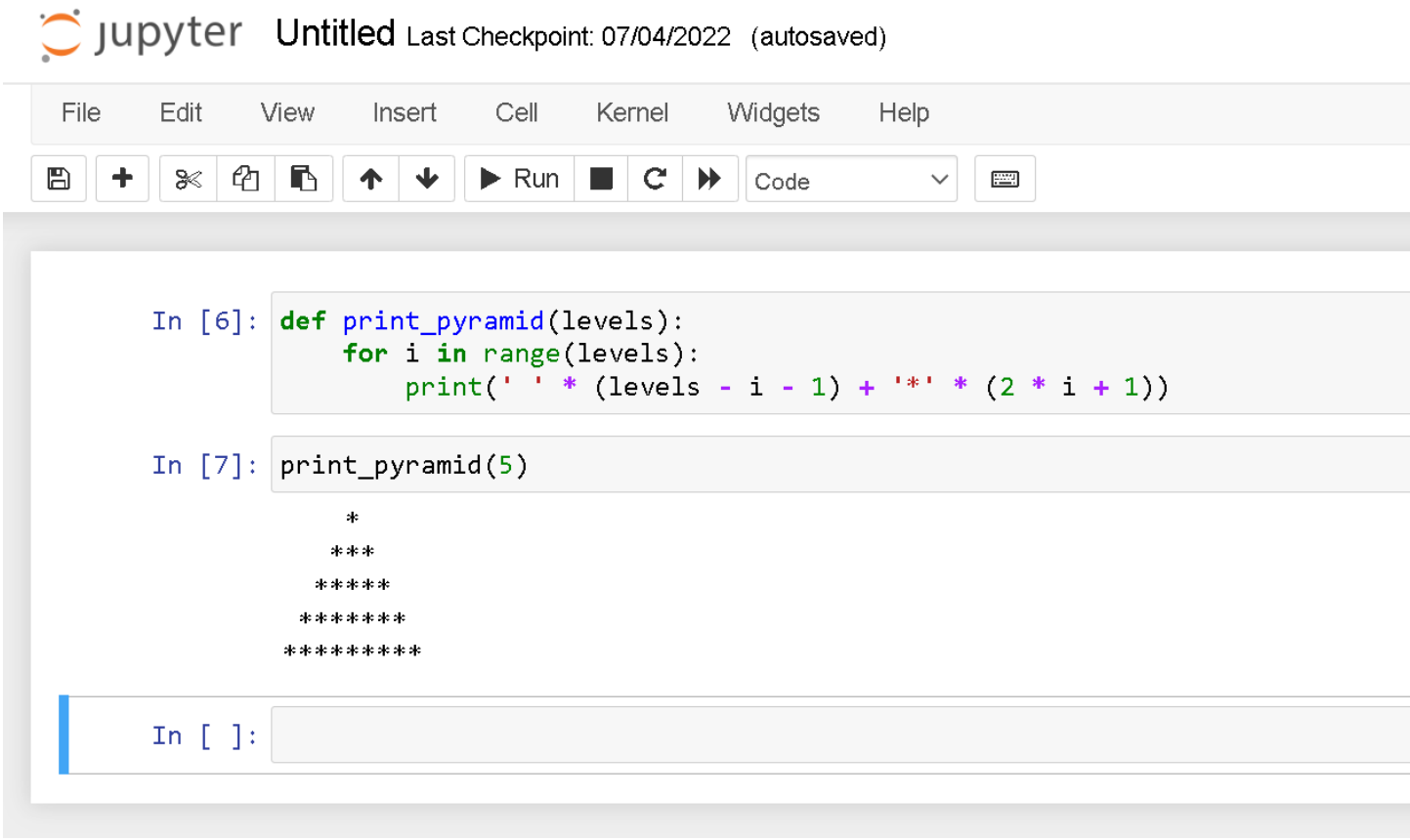
Ans – A, B, C and D

10. Which of the following is(are) correct statement(s) in python?

Ans - Option A and B are partially correct, and option C and D are both correct.

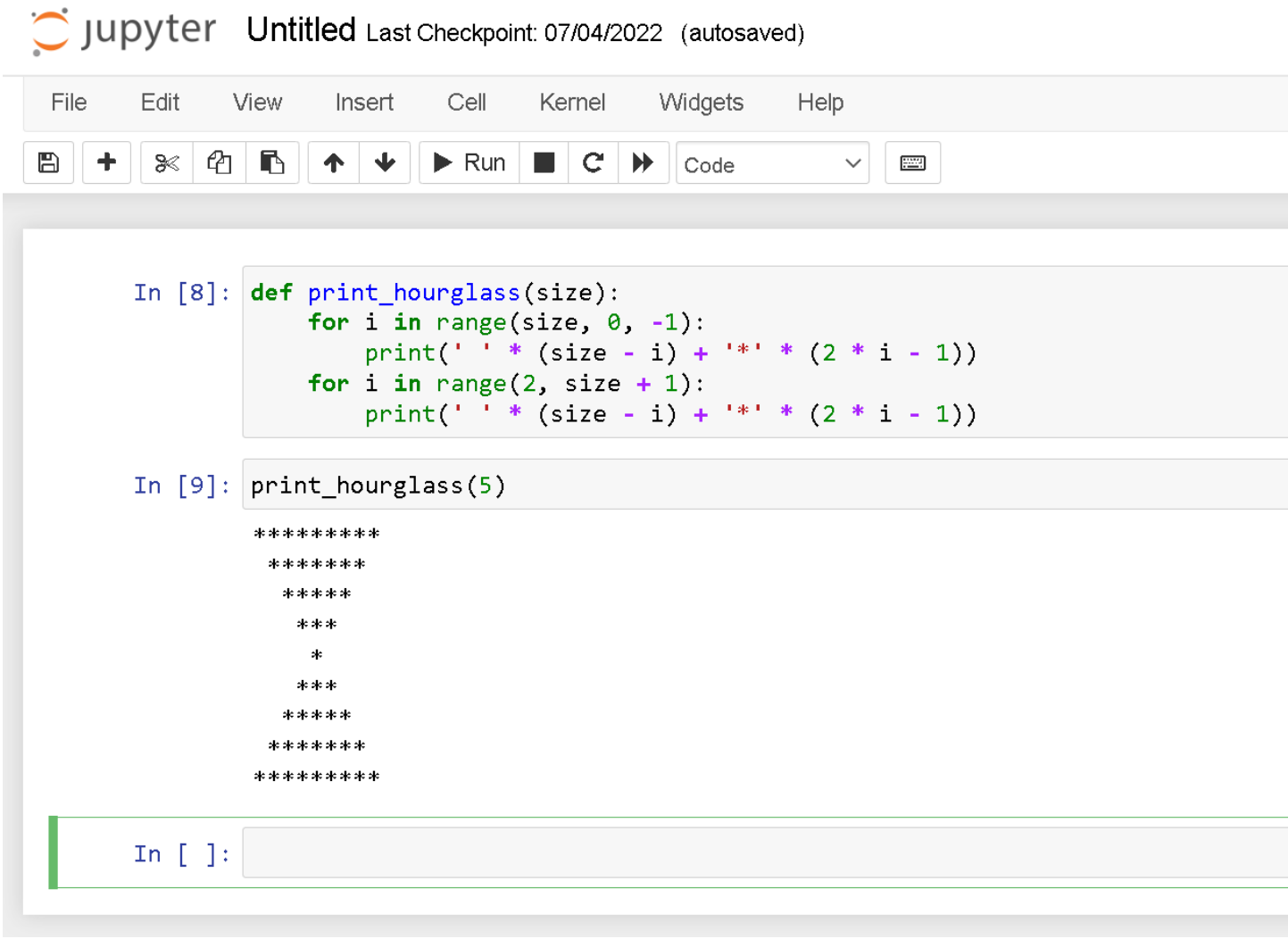
11. Write a python function print pyramid of stars. Level of the pyramid should be taken as an input from the user.

Ans -



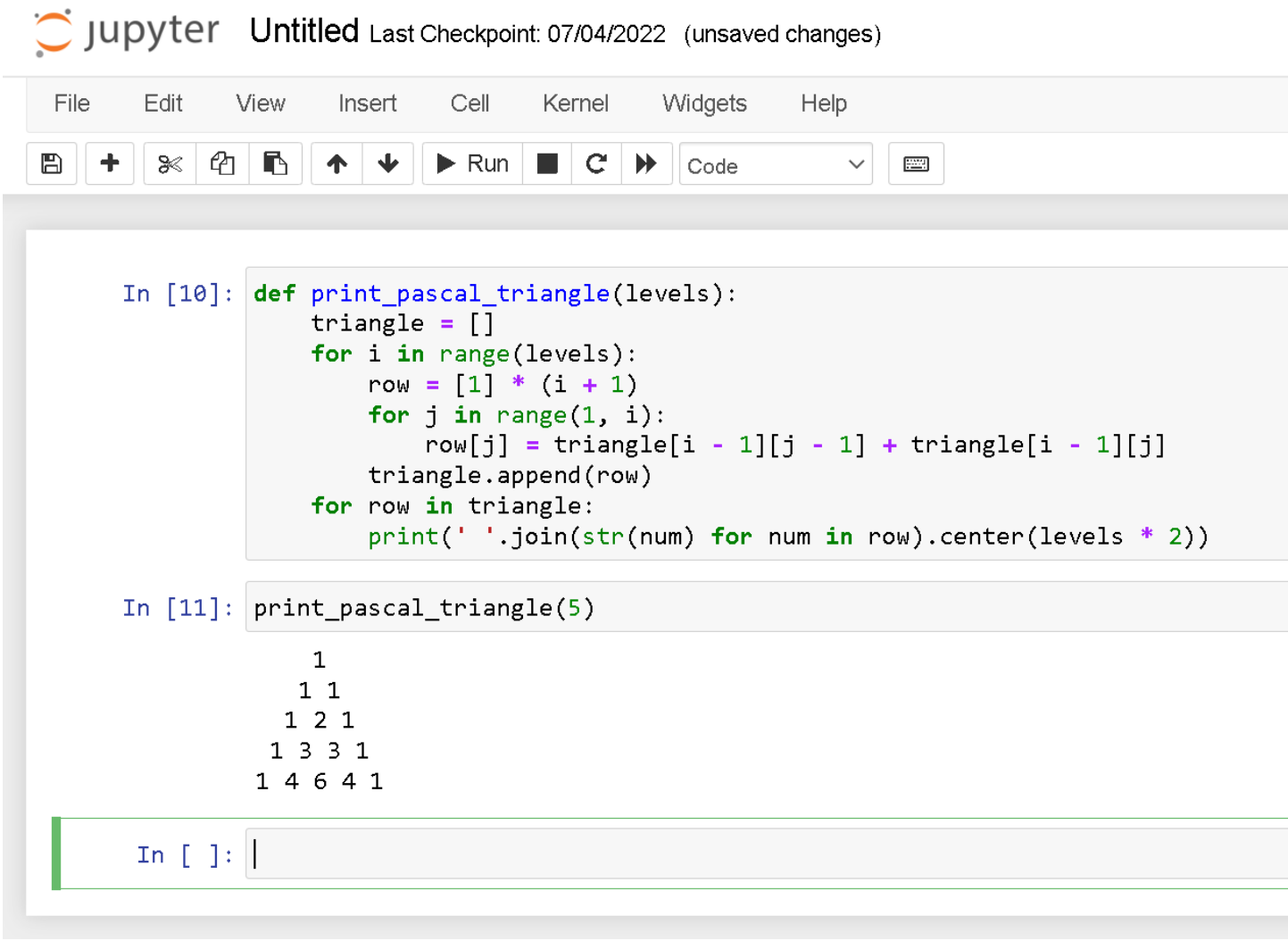
12. Write a python function print Hourglass pattern?

Ans -



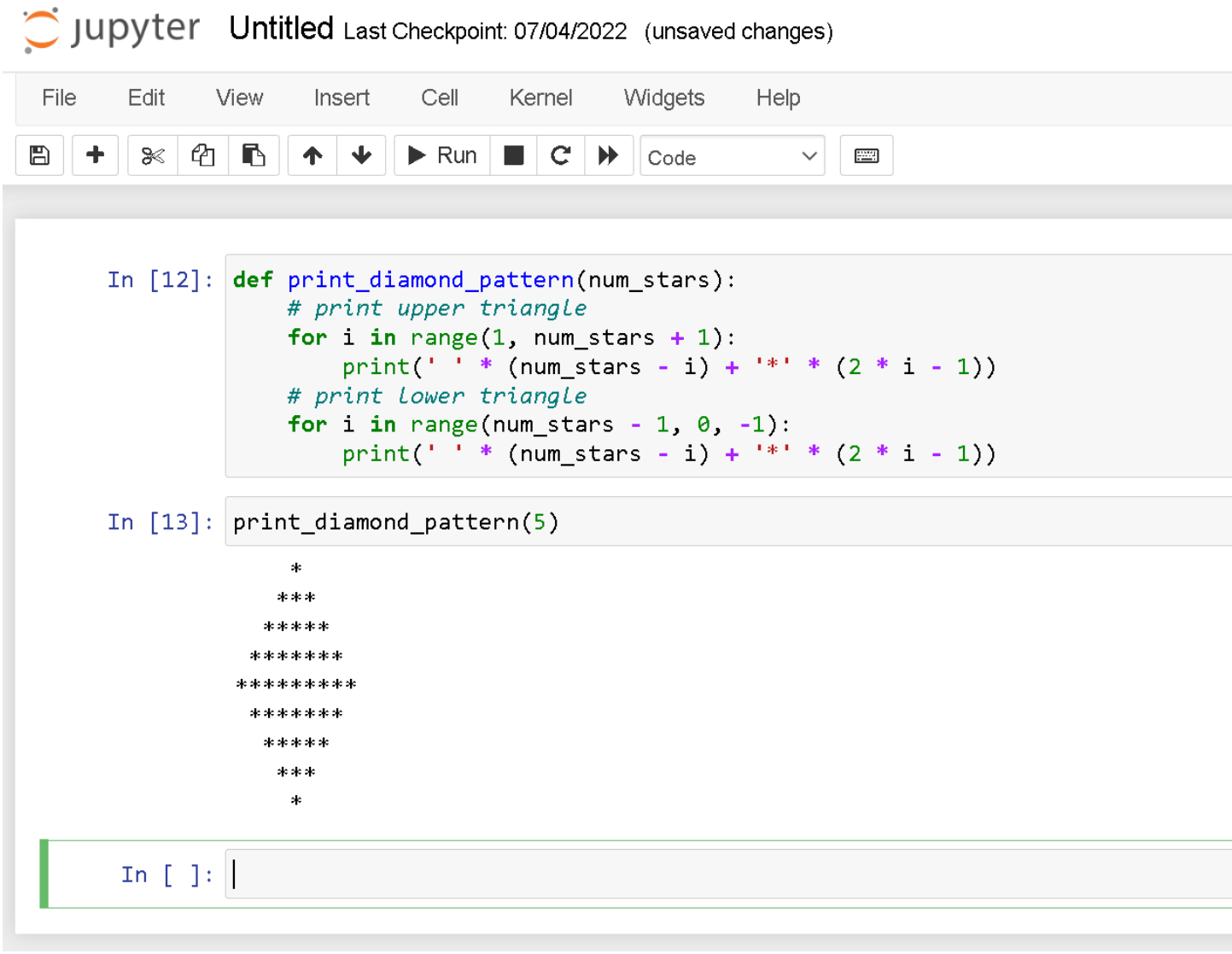
13. Write a python function to print Pascal's Triangle. The number of levels in the triangle must be taken as input by the user.

Ans -



14. Write a python function to print Diamond Shaped Pattern shown below. Function must take integer input which represents the number of stars in the middle most line.

Ans -



15. Write a python function to print Diamond Shaped Character Pattern shown below. Function must take integer input within range 1 to 26, which represents the rank of the alphabet.

Ans -

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In [14]:
```
def print_diamond_char_pattern(rank):

    mid_char = chr(ord('A') + rank - 1)


    for i in range(1, rank + 1):
        line = ' ' * (rank - i)
        for j in range(i):
            line += chr(ord('A') + j) + ' '
        print(line)

    for i in range(rank - 1, 0, -1):
        line = ' ' * (rank - i)
        for j in range(i):
            line += chr(ord('A') + j) + ' '
        print(line)
```

In [22]:
```
print_diamond_char_pattern(5)
```

```
    A
   A B
  A B C
 A B C D
A B C D E
 A B C D
  A B C
   A B
    A
```