Assignment No: 1
Name: Dharmit Shah   **Roll No:** 31011020018
Course Name: Python Programming.   **Class:** Bsc.IT(Honors)

Python Programming

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Question 1:

Write a program (using functions!) that asks the user for a long string containing multiple words. Print back to the user the same string, except with the words in backwards order. For example, say I type the string:

Input String: My name is Rupa
Output String: Rupa is name My

Code:

```python
def reverser():
    user_input = input("Enter a string: ");
    print("Input String: ", user_input);
    user_input = user_input.split(" ")
    print("Output String: ", end="");
    for x in user_input[::-1]:
        print(x, end=" ")
    print("")


reverser()
```

Output:

```
[hmm@tortoise: Assign1](master)$ python Q1Assignment.py
Enter a string: hello this is a test string
Input String:  hello this is a test string
Output String:  string test a is this hello
[hmm@tortoise: Assign1](master)$ ▊
```

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Question 2:

Guess the Number game within a given range.

Requirements:
1. Generate a random correct answer, say between 1 and 100,to know what the correct answer is?
2. Ask the user to input a guess.
3. Check to see if the user's input matches the correct answer.
4. If not matches give Feedback on the user's guess (e.g., "Correct!"; "Too High!" "Too Low!"; etc.)
5. A way to try again if the user's guess was incorrect (only three attempt).

Conditions:
1. Only 3 attempts are provided.
2. if→ Guessnum below Correctans → then print Too Low
3. if→ Guessnum above Correctans → then print Too High
4. if→ guessnum equals correctans → then print Correct!!!

Example:
- Correctans → Generate from random number
- Guessnum → Ask user to enter

Hint:
- import random

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Code:

```python
import random
answerRequired = random.randint(1,10);
player_chances = 3;
guess = None;

while player_chances != 0:
    print("Remaining Chances: ", player_chances);
    guess = int(input("Enter a number between [1-10]: "));
    if guess == answerRequired:
        print("You have won the game ...");
        break;
    elif guess < answerRequired:
        print("Your guess is lower than the required answer ... ");
        player_chances -=1;
    else:
        print("Your guess is greater than the required answer ..." );
        player_chances -=1;
```

Output:

```
[hmm@tortoise: Assign1](master)$ python Q2Assignment.py
Remaining Chances:  3
Enter a number between [1-10]: 5
Your guess is lower than the required answer  ...
Remaining Chances:  2
Enter a number between [1-10]: 7
Your guess is greater than the required answer  ...
Remaining Chances:  1
Enter a number between [1-10]: 6
You have won the game  ...
[hmm@tortoise: Assign1](master)$ []
```