Exercise : Write a Python program to generate a random list of numbers between two given numbers and take an integer then print the number of items of the list as much as integer number. 5 min

- **Hint:** Use random.sample()
- **For example:**

  Choose ten numbers randomly from 0 to 100

Given:

```
0 100 10
```

Expected output:

```
create a list of random integers : [46, 4, 45, 50, 43, 85, 74, 42, 99, 7]
```

Exercise 2: Create a function with a default argument

Write a program to create a function `show_employee()` using the following conditions. (10 min)

- It should accept the employee's name and salary and display both.

- If the salary is missing in the function call then assign default value 9000 to salary

Given:

```
showEmployee("Ben", 12000)
showEmployee("Jessa")
```

Expected output:

```
Name: Ben salary: 12000
Name: Jessa salary: 9000
```

Exercise 3: Write a Python function that accepts a string and calculate the number of upper case letters and lower case letters. 10 min

Given:

```
The quick Brow Fox
```

Expected output:

```
No. of Lower case Characters : 12
No. of Upper case characters : 3
```

Exercise 4: Write a Python function that checks whether a passed string is palindrome or not. 10 min

- **Hint:** A string is said to be a palindrome if the reverse of the string is the same as the string. For example, "radar" is a palindrome, but "radix" is not a palindrome.

Given:

```
malayalam
```

Expected output:

```
Yes
```

Exercise 5: Write a Python function to multiply all the numbers in a list. 10 min

- **Hint**: search **reduce()** function.

Given:

```
[8, 2, 3, -1, 7]
```

Expected output:

```
-336
```