

How to make your code run fast

- **Use builtin libraries :**
 - This will save you time and avoids making mistakes
 - Also helps in reducing the size of code
- **Avoid Calculations inside for loop:**
 - Calculations take much time to compile when compared to others
 - if we calculate inside for loop ,then for every iteration it takes more time than usual
- **Define functions :**
 - if we are using a piece of code many times in the code , it's better to define it in a function
 - It avoids space consumption and reduces number of lines of code
 - we can just give input parameters and get output instead of doing whole process everytime
- **Structuring the solution before itself:**
 - it helps you to be clear about the code
 - we can code accordingly and avoid using unwanted functions and variables in code
- **Use join to concatenate :**
 - using + operations creates new string for every +
 - you can use join instead of it

```
use :  
' '.join(str)  
instead of :  
variable + ' ' + variable
```

- **Using Local variables :**
 - use local variables more
 - If some variables are used in particular function or piece of code then local variables are restricted to that part of code only unlike global variables
- **Assigning Multiple variables at a time :**
 - This will help you to avoid more number of lines of code

```
use :  
a , b , c = 2, 5, 6  
instead of :  
a = 2  
b = 4  
c = 4
```