



4.1.1 Random Numbers

Random numbers allow programs to produce different outcomes each time they run.

For example:

- A game can randomly place enemies.
- An online quiz can present questions in a different order.
- A password generator can create random passwords.

Random Number Generation

Python uses the random module. Before using it, you must import it.

```
import random
```

Generating a random integer

```
number = random.randint(1, 6)  
print(number)
```

Output:

```
3
```

number will be a random integer between 1 and 6 inclusive

Choosing a random element of a list

```
colours = ["red", "green", "blue", "yellow", "purple"]  
random_colour = random.choice(colours)  
print(random_colour)
```

Output:

```
yellow
```

