```
1 import random
```

```
1 import random
2 letters = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', '
3 numbers = ['0', '1', '2', '3', '4', '5', '6', '7', '8', '9']
4 symbols = ['!', '#', '$', '%', '&','*', '@','^','/']
```

```
1 print("Welcome to the PyPassword Generator!")
2 nr_letters= int(input("How many letters would you like in your password?\n"))
3 nr_symbols = int(input("How many symbols would you like?\n"))
4 nr_numbers = int(input("How many numbers would you like?\n"))
```

```
Welcome to the PyPassword Generator!
How many letters would you like in your password?
3
How many symbols would you like?
2
How many numbers would you like?
4
```

Initializes an empty list to store the random characters that will make up the password.

```
1 password_list=[]
```

```
1 for letter in range(1,nr_letters+1):
2     password_list.append(random.choice(letters))
```

```
1 for symbol in range(1, nr_symbols+1):
2     password_list.append(random.choice(symbols))
```

```
1 for number in range(1,nr_numbers+1):
2     password_list.append(random.choice(numbers))
```

Shuffles the list of characters so letters, numbers, and symbols are all randomly mixed, making the password harder to guess

```
1 random.shuffle(password_list)
```

This will store the final password.

```
1 password=' '.join(password_list)
```

```
1 print("Your New Password is:",password)
```

```
Your New Password is: # G 8 4 n * O 4 6
```