

```
In [1]: ➤ import random
import string
def generate_password(length,use_uppercase,use_digits,use_special):
    characters=string.ascii_lowercase
    if use_uppercase:
        characters+=string.ascii_uppercase
    if use_digits:
        characters+=string.digits
    if use_special:
        characters+=string.punctuation

    password=''.join(random.choice(characters) for _ in range(length))
    return password

def get_user_input():
    while True:
        try:
            length =int(input("\nEnter the desired length of the password: "))
            if length <=0:
                print("Length should be greater than zero.")
                continue
            break
        except ValueError:
            print("Invalid input.Please enter a valid number for length.")

    use_uppercase =input("Want to include uppercasse letters? (yes/no): ").strip().lower() =='yes'
    use_digits =input("Want to include digits? (yes/no): ").strip().lower() =='yes'
    use_special =input("Want to include special characters? (yes/no): ").strip().lower() =='yes'

    if not(use_uppercase or use_digits or use_special):
        print("You must include at least one of these character types (uppercasse, digits, special).")
        return get_user_input()

    return length,use_uppercase,use_digits,use_special

def main():
    print("Password Generator")
    while True:
        length, use_uppercase, use_digits, use_special = get_user_input()
```

```
password =generate_password(length,use_uppercase,use_digits,use_special)
print(f"\nGenerated Password : {password}")

repeat_again =input("\nDo you want to generate another password? (yes/no): ").lower()
if repeat_again!='yes':
    break

print("\nExited from Password Generator Successfully!")

if __name__=="__main__":
    main()
```

## Password Generator

```
Enter the desired length of the password: 8
Want to include uppercase letters? (yes/no): yes
Want to include digits? (yes/no): yes
Want to include special characters? (yes/no): no
```

Generated Password : Fvtzhjj7

Do you want to generate another password? (yes/no): yes

```
Enter the desired length of the password: 6
Want to include uppercase letters? (yes/no): yes
Want to include digits? (yes/no): yes
Want to include special characters? (yes/no): yes
```

Generated Password : ucUT(Y

Do you want to generate another password? (yes/no): yes

```
Enter the desired length of the password: 10
Want to include uppercase letters? (yes/no): yes
Want to include digits? (yes/no): no
Want to include special characters? (yes/no): no
```

Generated Password : hhLIvYspxn

Do you want to generate another password? (yes/no): no

Exited from Password Generator Successfully!