```python
PASSWORD GENERATOR.PY > ...
 1  """There is no any kind of restriction means no passowrd
 2  limit or anything or does not follows try except mechanism:"""
 3
 4
 5  import random
 6  import string
 7
 8  # Password Generator
 9
10  print("----- Password Generator -----")
11
12  # User input: password length
13  length = int(input("Enter the desired password length: "))
14
15  # Characters to use: letters, digits, and special characters
16  characters = string.ascii_letters + string.digits + string.punctuation
17
18  # Generate password
19  password = ''.join(random.choice(characters) for _ in range(length))
20
21  # Display result
22  print("Generated Password:", password)
23
```

```python
passwordgenerator.py > ...
 1  """Smilar to the first one but including the restriction that
 2  password should be more than 4 character along with try except mechanism"""
 3
 4  import random
 5  import string
 6  def generate_password(length):
 7      # Define character sets
 8      letters = string.ascii_letters  # a-zA-Z
 9      digits = string.digits          # 0-9
10      symbols = string.punctuation    # Special characters like!@#$%
11
12      # Combine all character sets
13      all_chars = letters + digits + symbols
14
15      # Generate password
16      password = ''.join(random.choice(all_chars) for _ in range(length))
17      return password
18
19  def main():
20      print("Welcome to the Python Password Generator!")
21
22      try:
23          length = int(input("Enter desired password length: "))
24          if length < 4:
25              print("Password length should be at least 4 characters.")
26              return
```

```python
        password = generate_password(length)
        print(f"\nYour generated password is:\n{password}")
    except ValueError:
        print("Please enter a valid number.")

if __name__ == "__main__":
    main()

```