```
import random
import string
def generate_password(length):
    # Define possible characters: lowercase, uppercase, digits, punctuation
    characters = string.ascii_letters + string.digits + string.punctuation
    # Use random.choices to pick characters
   password = ''.join(random.choices(characters, k=length))
   return password
def main():
   print("=== Password Generator ===")
    # Get desired password length from user
    try:
        length = int(input("Enter desired password length: "))
        if length <= 0:
            print("Please enter a positive number.")
           return
    except ValueError:
        print("Invalid input. Please enter a number.")
        return
    # Generate and display the password
   password = generate_password(length)
   print("\nGenerated Password:")
```

```
print(password)

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