

```
# Install library before running (only once):
```

```
# pip install captcha pillow
```

```
From captcha.image import ImageCaptcha
```

```
Import random
```

```
Import string
```

```
Def generate_captcha_text(length=5):
```

```
    # Random string of uppercase letters + digits
```

```
    Return ''.join(random.choices(string.ascii_uppercase + string.digits, k=length))
```

```
Def generate_captcha_image(text, filename="captcha.png"):
```

```
    Image = ImageCaptcha(width=280, height=90)
```

```
    Image.write(text, filename)
```

```
    Print(f"✅ CAPTCHA generated and saved as {filename}")
```

```
    Return filename
```

```
Def verify_captcha(original_text, user_input):
```

```
    If original_text == user_input.strip().upper():
```

```
        Print(f"✅ CAPTCHA verification successful! You are human.")
```

```
    Else:
```

```
        Print(f"❌ CAPTCHA verification failed! Please try again.")
```

```
# ----- MAIN -----
```

```
If __name__ == "__main__":
```

```
    Captcha_text = generate_captcha_text()
```

```
Generate_captcha_image(captcha_text)
```

```
Print("Enter the CAPTCHA shown in captcha.png:")
```

```
User_input = input("CAPTCHA: ")
```

```
Verify_captcha(captcha_text, user_input)
```