

TASK 3 : PASSWORD GENERATOR

Program:

```
import random
```

```
import string
```

```
def generate_password(length):
```

```
    if length < 4:
```

```
        return "Password length should be at least 4 for better security."
```

```
    all_chars = string.ascii_letters + string.digits + string.punctuation
```

```
    password = ''.join(random.choice(all_chars) for _ in range(length))
```

```
    return password
```

```
print("🔒 Password Generator")
```

```
print("-----")
```

```
try:
```

```
    user_length = int(input("Enter desired password length: "))
```

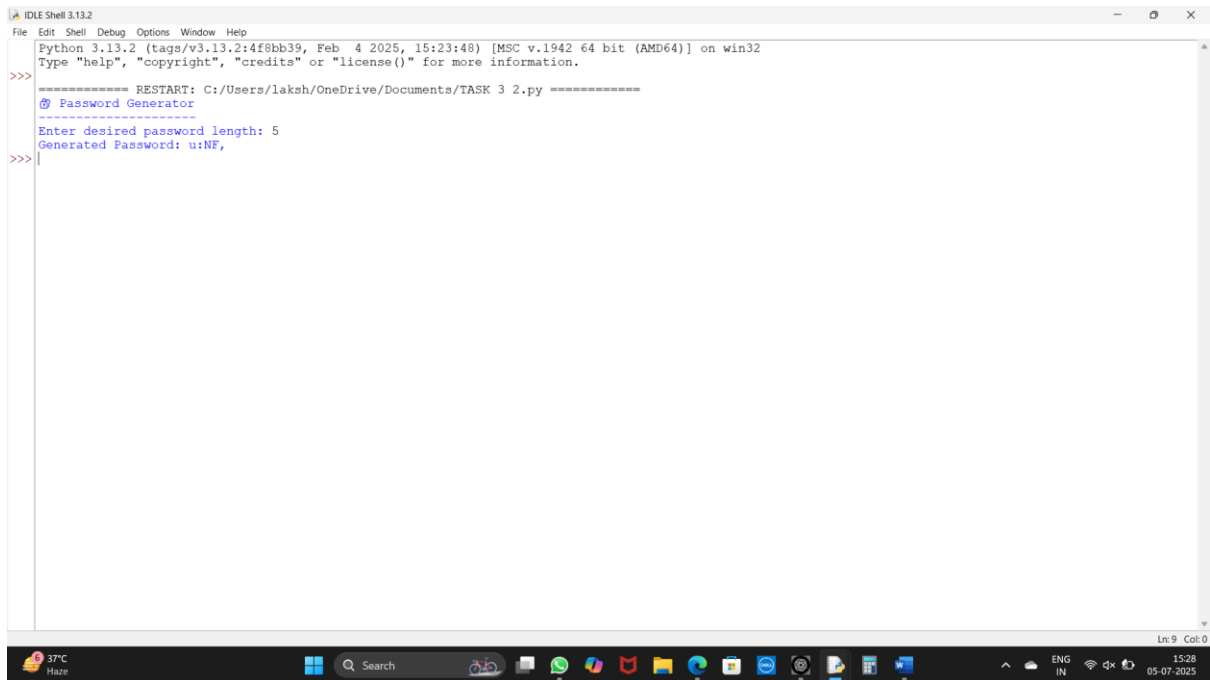
```
    password = generate_password(user_length)
```

```
    print(f'Generated Password: {password}')
```

```
except ValueError:
```

```
    print("Please enter a valid number.")
```

OUTPUT:



```
Python 3.13.2 (tags/v3.13.2:4f8bb39, Feb  4 2025, 15:23:48) [MSC v.1942 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/laksh/OneDrive/Documents/TASK 3 2.py =====
@ Password Generator
-----
Enter desired password length: 5
Generated Password: u:Nf,
>>>
```

The screenshot shows a Windows taskbar at the bottom with a temperature of 37°C and a date of 05-07-2025. The IDLE Shell window displays the output of a Python script that generates a password of length 5, resulting in 'u:Nf,'.