Task 1

```
馛 Welcome to the Guessing Game! 🍿
Enter Name = Bhushan
Bhushan Guess a number between 1 and 100: 13
Your guess number is Too high!
Guess again: 10
Your guess number is Too high!
Guess again: 6
Your guess number is Too high!
Guess again: 8
Your guess number is Too high!
Guess again: 9
Your guess number is Too high!
Guess again: 6
Your guess number is Too high! 📈
Guess again: 7
Your guess number is Too high! 📈
Guess again: 5
Congratulations! Bhushan 🞉 You guessed the correct number!
Computer Number = 5
```

Task 2

```
import random
print("Please Type Range 1 to 100 ")
lower_bond = int(input("Enter First Range = "))
upper_bond = int(input("Enter Second Range = "))
pc_number = random.randint(lower_bond,upper_bond)
while True:
   try:
       uGuess = int(input(f"Guess a number between {lower_bond} and
{upper_bond}: "))
   except ValueError:
       print("Invalid input. Please enter a valid number.")
       continue
   if uGuess == pc_number:
       print (f"  Congratulation ! You guessed the correct number {pc_number}.
       break
   elif uGuess < pc_number:</pre>
       print("Too low! Try again. 🔄")
   else:
       print("Too high! Try again. \( \sqrt{2}\)")
```

Task 3

```
import string
import getpass
def check pass strength():
    password = getpass.getpass('Enter your new password: ')
    strength = 0
    message = ''
    for char in password:
        if char in string.ascii_lowercase:
            strength += 1
        elif char in string.ascii_uppercase:
            strength += 1
        elif char in string.digits:
            strength += 1
        else:
            strength += 1
    if len(password) >= 8:
        strength += 1
    if strength == 1:
        message = 'Your password is very weak.'
    elif strength == 2:
        message = 'Your password is weak.'
    elif strength == 3:
        message = 'Your password is moderate. add special characters.'
    elif strength == 4:
        message = 'Your password is strong! Your account is well protected.'
        message = 'Your password does not meet the minimum requirements. Please
try again.'
    return message
if __name__ == "__main__":
    print("Welcome to Cognifyz the Password Strength Checker!")
    print("password mix of uppercase and lowercase letters, digits, and special
characters.")
    print("it should be at least 8 characters long.")
    while True:
        password_strength = check_pass_strength()
```

```
print(password_strength)

choice = input("Do you want to try another password? (yes/no): ").lower()
   if choice != 'yes':
        break

print("Thank you for using the Password Strength Checker. Stay secure!")
```

OutPut-

Welcome to Cognifyz the Password Strength Checker!

password mix of uppercase and lowercase letters, digits, and special characters.

it should be at least 8 characters long.

Enter your new password:

Your password does not meet the minimum requirements. Please try again.

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

Task 4

```
def fibonacci(n):
    if n == 0:
        return 0
    elif n == 1:
        return 1
    else:
        return fibonacci(n - 1) + fibonacci(n - 2)

def main():
    n = int(input("Enter the number of terms := "))
    for i in range(n):
        print(fibonacci(i))

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

```
Enter the number of terms := 10
0
1
1
2
3
5
8
13
21
34
PS C:\Users\cw\Desktop\Python Internship> []
```

Task 5

```
file_name = input("Enter the name of the file: ")
word_counts = {}
try:
    with open(file_name, 'r') as file:
        for line in file:
            words = line.strip().split()
            for word in words:
                word = word.strip(".,!?()[]{}\"'").lower()
                word_counts[word] = word_counts.get(word, 0) + 1
except FileNotFoundError:
    print("File not found. Please check the file name and try again.")
    exit()
sorted_word_counts = sorted(word_counts.items())
print("Word\t\t\tCount")
for word, count in sorted_word_counts:
    print(f"{word}\t\t{count}")
```

```
Enter the name of the file: Bhushan.txt
File not found. Please check the file name and try again.
PS C:\Users\cw\Desktop\Python Internship> [
```