Task 1 – To-Do List

A simple CLI application for managing daily tasks: add, update, view, delete.

Code:

```
tasks_list=[]
def task():
      #empty list
 print("WELL COME TO THE TASK MANAGEMENT APPLICATION!..")


today_task= int(input("Enter how many task you want to add:"))
for i in range(1,today_task+1):
    task_name = input(f"Enter your task {i} = ")
    tasks_list.append(task_name)
print(f"Today's task are\n",(tasks_list))


while True:
   operation = int(input("Enter 1=add\n2=upadate\n3=view\n4=delete\n5=exite\stop"))

   if operation==1:
       add=input("Enter task you want to add :")
       tasks_list.append(add)
       print("task(add)successfuly added....")

   elif operation==2 :
       update = input("Enter task what you want to update:")
       if update in tasks_list:
           up = input("Enter your new task:")
           ind = tasks_list.index(update)
           tasks_list[ind]==up
           print(f"updated task{up}")

       else :
          print("task is not found!")

   elif operation==3 :
      print("your tasks:",tasks_list)

   elif operation==4 :
      delete = input("Enter task what you want to delete:")
      tasks_list.remove(delete)
      print("after deleted list:",tasks_list)


   elif operation==5 :
    print("exit...!")
    break


   else:
    print("invalid choice!")
```

Task 2 – Calculator

A calculator that performs basic operations: addition, subtraction, multiplication, division, and modulo.

Code:

```
num1 = float(input("Enter the first number: "))
num2 = float(input("Enter the second number: "))
print("\nSelect the operation:")
```

```
print("1. Addition")
print("2. Subtraction")
print("3. Multiplication")
print("4. Division")
print("5. Modulo")

choice = input("Enter your operation (1, 2, 3, 4, 5): ")

if choice == '1':
    result = num1 + num2
    print("Addition of number is :", result)

elif choice == '2':
    result = num1 - num2
    print("Subtraction of number is:", result)

elif choice == '3':
    result = num1 * num2
    print("Multiplication of number is:", result)

elif choice == '4':
    if num2 != 0:
        result = num1 / num2
        print("Division of number is:", result)
    else:
        print("Error: Division by zero!")

elif choice == '5':
    if num2 != 0:
        result = num1 % num2
        print("Modulo of number is:", result)
    else:
        print("Error: Modulo by zero!")

else:
    print("Invalid choice! Please select a valid operation.")
```

Task 3 – Password Generator

A password generator that creates strong random passwords using letters, digits, and punctuation.

Code:

```
import random
import string

length = int(input("Enter the desired password length: "))

characters = string.ascii_letters + string.digits + string.punctuation

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

print("Generated Password:", password)
```