Lab 20

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 Enrollment No: 92100133020

CO1: To write, test, and debug simple Python programs

CO2: To implement Python programs with conditional, loops and functions

Python Code:

Task 1:

```python
def prog2():
    f1 = open("MyFile1.txt", "w")
    f2 = open("MyFile2.txt", "w")
    f3 = open("MyFile3.txt", "w")
    f4 = open("MyFile4.txt", "w")
    f5 = open("MyFile5.txt", "w")
    f6 = open("MyFile6.txt", "w")
    f7 = open("MyFile7.txt", "w")
    f8 = open("MyFile8.txt", "w")
    f9 = open("MyFile9.txt", "w")
    f10 = open("MyFile10.txt", "w")

    info = 'Hello'

    f1.write(info)
    f1.close()
    f2.write(info)
    f2.close()
    f3.write(info)
    f3.close()
    f4.write(info)
    f4.close()
    f5.write(info)
    f5.close()
    f6.write(info)
    f6.close()
    f7.write(info)
    f7.close()
    f8.write(info)
    f8.close()
    f9.write(info)
    f9.close()
```
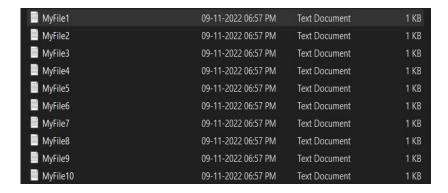
```
        f10.write(info)
        f10.close()

prog2()
```

Output:

MyFile1	09-11-2022 06:57 PM	Text Document	1 KB
MyFile2	09-11-2022 06:57 PM	Text Document	1 KB
MyFile3	09-11-2022 06:57 PM	Text Document	1 KB
MyFile4	09-11-2022 06:57 PM	Text Document	1 KB
MyFile5	09-11-2022 06:57 PM	Text Document	1 KB
MyFile6	09-11-2022 06:57 PM	Text Document	1 KB
MyFile7	09-11-2022 06:57 PM	Text Document	1 KB
MyFile8	09-11-2022 06:57 PM	Text Document	1 KB
MyFile9	09-11-2022 06:57 PM	Text Document	1 KB
MyFile10	09-11-2022 06:57 PM	Text Document	1 KB

Task 2:

```python
def prog():
    # str = ''
    f = open('student.txt', 'w')
    user = int(input("Enter number of students = "))
    for i in range(0, user):
        name = input("Enter name = ")
        marks = input("Enter marks = ")
        str = name+" "+marks+"\n"
        f.write(str)
    f.close()
prog()
```

Output:

```
Enter number of student = 3
Enter name = abc
Enter marks = 100
Enter name = xyz
Enter marks = 99
Enter name = mno
Enter marks = 85
```

Task 3:

```python
def program():
    f = open('intro.txt', 'r')
    data = f.read()
    count = 0
    for i in range(len(data)):
        if data[i].islower():
            pass
        elif data[i].isupper():
```

```
                pass
        elif data[i].isnumeric():
                pass
        else:
                count += 1
    print(count)
program()
```

Output:

Task 4:

```python
import re
def email():
    regex = r'[a-z0-9]+@[a-z]+\.[a-z]{2,3}'
    e = "shashankbagda167@gmail.com"
    if re.fullmatch(regex, e):
        print("Valid")
    else:
        print("Invalid")
email()

def phone():
    val = r'[0-9]{10}'
    p = "7203039929"
    if re.fullmatch(val, p):
        print("Valid")
    else:
        print("Invalid")
phone()

def aadhar():
    tem = r'[0-9]{12}'
    adhr = "868111957359"
    if re.fullmatch(tem, adhr):
        print("Valid")
    else:
        print("Invalid")
aadhar()
```

Ouput: