//Q1: Copy contents of one file to another.

```
//program: def filecopy(fl1, fl2):
            f1=open(fl1,'w')
            f1.write("My name is Satyajeet\n")
            f1.write("My branch is MCA")
            f1=open(fl1,'r')
            f2=open(fl2,'w')
            print("content of file1")
            for l in f1:
                print(l)
                f2.write(l)
            print("\n content of file 2")
            f2=open(fl2)
            for l in f2:
                print(l)
            f1.close()
            f2.close()
        filecopy('file1', 'file2')
```

//output:

```
content of file1
My name is Satyajeet
My branch is MCA

content of file2
My name is Satyajeet

My branch is MCA
```

//Q2: Count number of words and newefs in a file.

```
//program: def filecount(fl1):
            f1=open(fl1,'w')
            f1.write("My name is Satyajeet")
            f1.write("My branch is MCA")
            c=0
            cr=0
            f1=open(fl1,'r')
            l=f1.readlines()
            for line in l:
                ct=len(line.split())
                for ch in line:
```

```
            if ch.isalpha() and ch in 'aeiouAEIOU':
                cv1 = 1
        print("count of words:", c, " ", "count of
        vowels:", cv)
        f1.close()
    filecount('file1')
```

//output:

count of words: 7 count of vowels: 10

//Q3: Store capitalized user input into a file.

```
//Program: f= open("file1.txt", "w")
        while True:
            s = input("Enter text: ")
            if s == "":
                break
            f.write(s.upper() + "\n")

        f.close()
        f= open("file1.txt", "r")
        print(f.read())
        f.close()
```

//output:

```
Enter text: virat
Enter text: kohli
Enter text:

VIRAT
KOHLI
```

//Q4: Copy alternate (odd) lines to another file.

```
//Program: def filecopy(f11, f12):
            f1 = open(f11, 'w'):
            f1.write("My name is Satyajeet")
            f1.write("My branch is MCA")
            f1.write("My section is B")
            f1 = open(f11, 'r')
            print("content of file1")
            l = f1.readline()
```

```
print(l)
f2=open(fl2,'w')
for i in range(0, len(l), 2):
        f2.write(l[i])
print("\n Content of file 2")
f2=open(fl2)
for l in f2:
        print(l)
f1.close()
f2.close()
filecopy('file1','file2')
```

//output:

content of file1
My name is satyajeet my branch is MCA my section is B2

content of file2
M nn s Sfactybac s Mayscini 2

```
//Q5: output of inverse1()
//programy: try:
            num = input("Enter the number:")
            num = float(num)
            inverse = 1.0/num
        except ValueError:
            print("ValueError")
        except TypeError:
            print("TypeError")
        except ZeroDivisionError:
            print("ZeroDivision Error")
        except:
            print("Any other Error")
        else:
            print(inverse)
        finally:
            print("Function inverse completed")
```

//output:

input	output
5	0.2
0	ZeroDivisionError
2.0	0.5
x	ValueError
Name	ValueError

//Q6: output of Percentage()

```
//Program: def percentage(marks, total):
            try:
                percent = (marks/ total) =100
            except ValueError:
                print ("ValueError")
            except TypeError:
                print ("TypeError")
            except ZeroDivisionError:
                print("ZeroDivisionError")
            except:
                print ("Any other Error")
            else:
                print (percent)
            finally:
                print ("function percentage completed")

//Testcalls.
percentage(150.0, 200.0)
percentage( 150.0, 0.0)
percentage("150.0", "200.0")
```

//output:

```
75.0
function percentage completed
ZeroDivisionError
function percentage completed
TypeError
function percentage completed
```

//Q7: Exception in result = a+b

Answer:

TypeError
NameError.

//Q8: File does not exist:

```
//program: try:
            f=open("file3214.txt","r")
         except IOError:
            print("Problem with Input Output....\n")
         else:
            print("No problem with Input Output....")
```

//output:

problem with Input Output...

//Q9: File write and read (output).

```
//program: f=open("PYTHON", "w")
         f.write("I am great" and ")
         f.write("Failure is a part of success")
         f.close()

         f=open("PYTHON", "r")
         print(f.read())
         f.close()
```

//output:

"I am great" and "Failure is a part of success"

//Q10: Error checking

```
//program: f= open("file1", "r")
         f.write("work is worship")
         f.close()
```

//o/p:

Error (because file opened in read mode)

//Q11: Consider the following program.

//program

(a)
```
f=open("PYTHON","w")
f.write("failure is a part of success")
f.close()
f=open("PYTHON","r")
print(f.read(4))
f.close()
```
//o/p: fail

(a)
```
f=open("PYTHON","w")
f.write("failure is a part of success")
f.close()
f=open("PYTHON","r")
print(f.read())
f.close()
```

// o/p:

failure is a part of success

//Q12: Write the output /Readline:

// program.
```
f=open("PYTHON","w")
f.write("failure is a part of success also, i am fine")
f.close()
f=open("PYTHON","r")
print(f.readline())
f.close()
```

// o/p:

failure is a part of success also, i am fine

//Q13: Write the output:

//Program:
```
f = open("PYTHON", "w")
description = ["we either choose the pain of
                discipline\n", "or\n", "the pain of
                regret\n"]
f.writelines(description)
f.close()
f = open("PYTHON", "r")
print(f.read())
f.close()
```

//output:

we either choose the pain of discipline
or
the pain of regret

//Q14: Stack using list

//Program:
```
stack = []
stack.append(10)
stack.append(20)
print(stack.pop())
```

//output:

20.

Q15: Queue using list:

//Program:
```
queue = []
queue.append(10)
queue.append(20)
print(queue.pop(0))
```

// output:

10