## PROGRAMMING ASSIGNMENT - 2

log.info("Entered Celcius Value is: %s",c)

log.info("%s Celcius is Equal to %s Farenheit\n",c, f)

f = (c\*9/5) + 32

except ValueError as e:

except Exception as e:

log.exception("Exception:",e)

log.error("Exception:",e)

return "Farenheit:",f

cel\_to\_far()

```
1. Write a Python program to convert kilometers to miles?
       import logging as log
       log.basicConfig(filename="programming_assignment_2.log",level=log.DEBUG,format='%(asctime)s
       %(levelname)s %(message)s',force=True)
       def km to ml():
          log.info("Here We Are Trying to Covert Kilometers in Miles")
            k = int(input("Enter the Kilometers : "))
            log.info("Entered Kilometers is %s",k)
            m = k * 0.621372
            log.info("%s Kilometers is Equal to %s Miles\n ", k, m)
          except ValueError as e:
            log.error("Enter The Value In Integer Format\n")
            return "Enter The Value In Integer Format"
          except Exception as e:
            log.error("Exception Occured",e)
          else:
            return "Miles:", m
       Km_to_ml()
2. Write a Python program to convert Celsius to Fahrenheit?
       import logging as log
       log.basicConfig(filename="programming_assignment_2.log",level=log.DEBUG,format='%(asctime)s
       %(levelname)s %(message)s',force=True)
       def cel to far():
          log.info("Converting Celcius to Farenheit")
          try:
            log.info("Enter the Celcius Value")
            c = float(input("Enter The Celcius Data: "))
```

```
3. Write a Python program to display calendar?
   - import calendar
      import logging as log
       log.basicConfig(filename="programming_assignment_2.log",level=log.DEBUG,format='%(asctime)s
       %(levelname)s %(message)s',force=True)
       def calend():
          log.info("Calendar Viewer")
          try:
            log.info("Enter The Year and Month")
            yy = int(input("Enter The Year: ")) # year
            mm = int(input("Enter The Month: ")) # month
            log.info("You Want To See The Calendar For The Year: %s & For The Month: %s",yy,mm)
            log.debug(calendar.month(yy, mm))
          except ValueError as e:
            log.error("Exception",e)
          except Exception as e:
            log.error("Exception", e)
          else:
            return calendar.month(yy, mm)
       calend()
4. Write a Python program to solve quadratic equation?
       import cmath
       import logging as log
       log.basicConfig(filename="programming_assignment_2.log",level=log.DEBUG,format='%(asctime)s
       %(levelname)s %(message)s',force=True)
       def quadratic():
          log.info("Solving Quadratic Equation")
          try:
            log.info("Enter a, b, c Values")
            a = int(input("Enter a :"))
            b = int(input("Enter b :"))
            c = int(input("Enter c :"))
            log.info("Entered Values are a = %s b = %s c = %s",a, b, c)
            d = (b^{**}2) - (4^*a^*c) #Discriminent
            sol1 = (-b-cmath.sqrt(d))/(2*a)
            sol2 = (-b+cmath.sqrt(d))/(2*a)
            log.info("Solutions are: %s & %s", sol1, sol2)
          except Exception as e:
            log.error("Exception Occured: ", e)
            return "Solutions are:", sol1, sol2
```

quadratic()

- 5. Write a Python program to swap two variables without temp variable?
  - import logging as log
  - log.basicConfig(filename="programming\_assignment\_2.log",level=log.DEBUG,format='%(asctime)s %(levelname)s %(message)s',force=True)

- def swapping():

log.info("Swapping Two Variables Without Using Temp Variable")

- try:

- log.info("Enter The Values")
- a = input("Enter The Value of First Variable: ")
- b = input("Enter The Value of Second Variable: ")
- log.info("The Entered Values Are : a = %s & b = %s",a,b)
- a,b = b,a
- log.info("After Swapping The Values Are a = %s & b = %s", a, b)
- except ValueError:
- log.error("Exception")
- except Exception as e:
- log.exception("Exception")
- else:
- return "After Swapping : a = {0}, b = {1}".format(a,b)
- swapping()