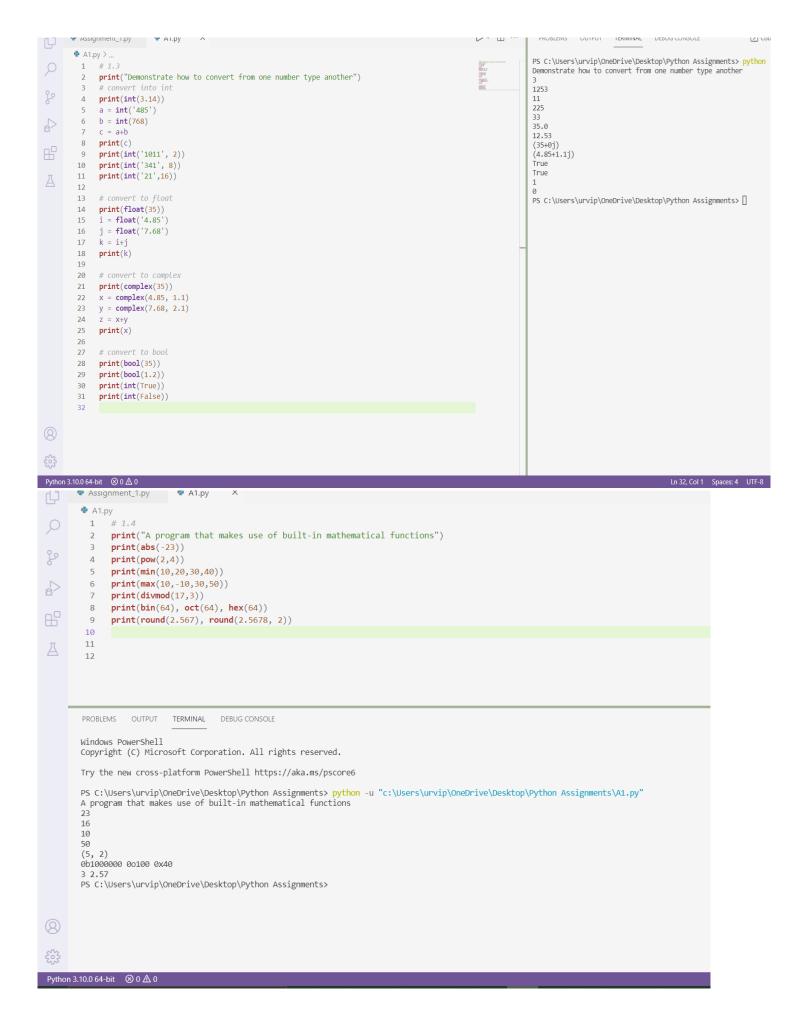
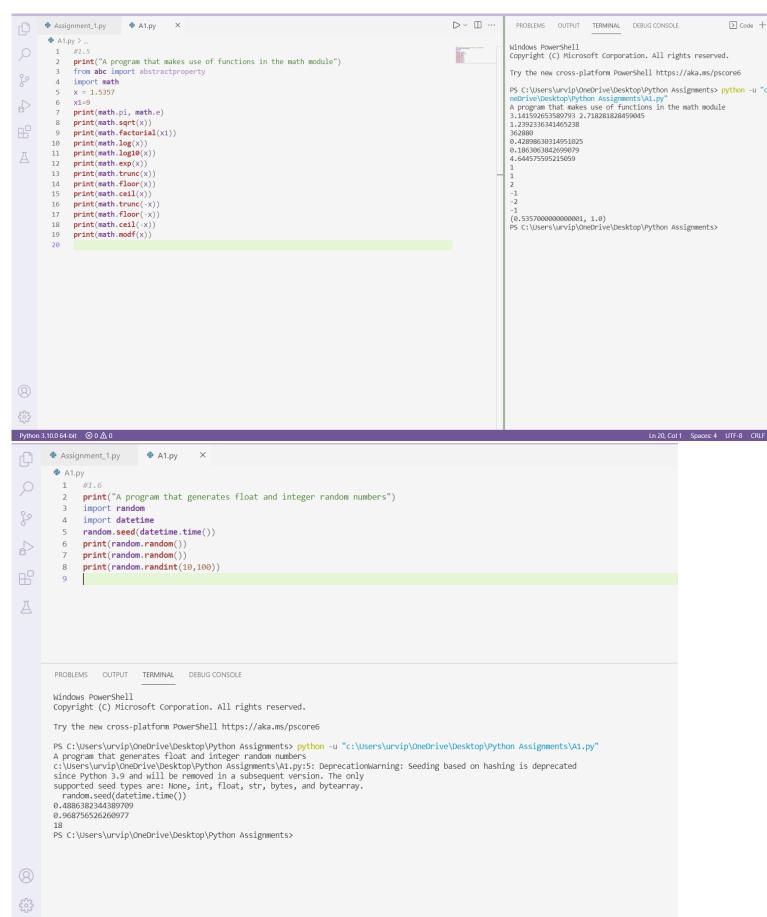
Assignment no.1

Name: Urvi Vijay Patel

Roll No. 4291 Subject: Python Programming

```
Assignment_1.py
   ♣ A1.py > ...
    1
        # SOLVED EXAMPLES
    2 # 1.1 Demonstrate use of integer types and operators that can be used on them
    4 print(3%4)
    5 print(3//4)
        print(3**4)
    8 a = 10; b = 25; c = 15; d = 30; e = 2; f = 3; g = 5
    9 \quad w = a+b-c
   10 x = d^{**}e
       y = f%g
   11
   12
        print(w,x,y)
   14 i = 54321
   15 print(h*i)
   PROBLEMS OUTPUT
                      TERMINAL
                                  DEBUG CONSOLE
  Windows PowerShell
  Copyright (C) Microsoft Corporation. All rights reserved.
  Try the new cross-platform PowerShell https://aka.ms/pscore6
  PS C:\Users\urvip\OneDrive\Desktop\Python Assignments> python -u "c:\Users\urvip\OneDrive\Desktop\Python Assignments\A1.py"
  0.75
  0
  81
  54320999999999999999999945679
  PS C:\Users\urvip\OneDrive\Desktop\Python Assignments>
Assignment_1.py A1.py
 ♦ A1.py > ...
      print("use of float, complex and bool types and operations that can be used on them")
  4 i = 3.5
  6 print(i%j)
      # comple
  a = 1+2i
  9 b = 3*(1+2j)
      c = a*b
 10
      print(a)
 11
      print(b)
 13
      print(c)
      print(a.real)
 print(a.imag)
     print(a.conjugate())
 17 print(a)
 19 x = True
 y = 3>4
 21
      print(x)
 22
      print(y)
 PROBLEMS OUTPUT TERMINAL
                         DEBUG CONSOLE
PS C:\Users\urvip\OneDrive\Desktop\Python Assignments> python -u "c:\Users\urvip\OneDrive\Desktop\Python Assignments\A1.py" use of float, complex and bool types and operations that can be used on them
 (3+6j)
(-9+12j)
 (1-2j)
(1+2j)
 PS C:\Users\urvip\OneDrive\Desktop\Python Assignments>
```





> Code +

```
Assignment_1.py
A1.py
X
        4 A1.py
         1 #1.7
         print("Identify string, list, tuple, set or dictionary ")
         3
              print(type({10,20,30.5}))
             print(type([1,2,3.14,'Nagpur']))
         4
              print(type({12:'Simple', 43:'Complicated', 13:'Complex'}))
              print(type("Check it out"))
              print(type(3+2j))
Д
                                     DEBUG CONSOLE
        PROBLEMS OUTPUT
                          TERMINAL
       Windows PowerShell
       Copyright (C) Microsoft Corporation. All rights reserved.
       Try the new cross-platform PowerShell https://aka.ms/pscore6
       PS C:\Users\urvip\OneDrive\Desktop\Python Assignments> python -u "c:\Users\urvip\OneDrive\Desktop\Python Assignments\A1.py"
       Identify string, list, tuple, set or dictionary <class 'set'>
       <class 'set'> <class 'list'>
        <class 'dict'>
        <class 'str'>
        <class 'complex'>
        PS C:\Users\urvip\OneDrive\Desktop\Python Assignments>
Python 3.10.0 64-bit ⊗ 0 🛕 0
```

```
Assignment_1.py
A1.py
 ♦ A1.py > ..
        1 # ****Unsolved Programs****
           #1.2.1
           print("A program that swaps values without a third variable")
           a = 8
           b = 23
           a,b=b,a
        6
           print('a=',a)
           print('b=',b)
       10
           #1.2.2
           print("Use of Trignometric fuctions in math module")
       11
 Д
       12
           import math
       13
           a = math.pi/6
           print("The value of sine of pi/6 is", end='')
       14
           print(math.sin(a))
           print("The value of cosine of pi/6 is", end='')
       17
           print(math.cos(a))
       PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
      Windows PowerShell
      Copyright (C) Microsoft Corporation. All rights reserved.
      Try the new cross-platform PowerShell https://aka.ms/pscore6
      A program that swaps values without a third variable
      a= 23
b= 8
      Use of Trignometric fuctions in math module
       Python 3.10.0 64-bit ⊗ 0 ∧ 0
```

