A-6.py > ...

```python
# 1. Write a python script to check whether a given number is positive or non-positive
a = int(input("Enter the number: "))
if a>0 :
    print("positive")
else :
    print("non-positive")

# 2. Write a python script to check whether a given number is divisible by 5 or not
a = int(input("Enter the number: "))
if a%5 == 0 :
    print("it is divisible")
else :
    print("it is not divisible")

# 3. Write a python script to check whether a given number is even or odd
a = int(input("Enter the number: "))
if a%2 == 0 :
    print("it is even")
else :
    print("it is odd")

# 4. Write a python script to print greater between two numbers. Print number only once even if the numbers are the same.
num1 = int(input("Enter num1: "))
num2 = int(input("Enter num2: "))
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

```
PS D:\Python_Course\Assignment>
PS D:\Python_Course\Assignment>  d:; cd 'd:\Python_Course\Assignment'; & 'C:\Users\Niket\AppData\Local\Programs\Python\Python310\python.exe
\Niket\.vscode\extensions\ms-python.python-2022.12.1\pythonFiles\lib\python\debugpy\adapter/../..\debugpy\launcher' '55660' '--' 'd:\Python
ignment\A0.py'
enter the number3
it is positive odd so : Prateek Jain
PS D:\Python_Course\Assignment>  d:; cd 'd:\Python_Course\Assignment'; & 'C:\Users\Niket\AppData\Local\Programs\Python\Python310\python.exe
\Niket\.vscode\extensions\ms-python.python-2022.12.1\pythonFiles\lib\python\debugpy\adapter/../..\debugpy\launcher' '55667' '--' 'd:\Python
ignment\A0.py'
enter the number-3
it is positive odd so : Prateek Jain
PS D:\Python_Course\Assignment>
```

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21
22  # 4. Write a python script to print greater between two numbers. Print number only once even if the numbers are the same.
23  num1 = int(input("Enter num1: "))
24  num2 = int(input("Enter num2: "))
25  if num1 > num2 :
26      print("Num1 is greater the Num2")
27  elif num1 == num2 :
28      print("both num are same")
29  else :
30      print("Num2 is greater than Num1: ")
31
32  # 5. Write a python script to print two given words in dictionary order
33  print("Enter Two Cities")
34  a,b = input(),input()
35  if a>b :
36      print(b,a)
37  else :
38      print(a,b)
39
40  # 6. Write a python script to check whether a given number is a three digit number or not.
41  a = int(input("Enter the number: "))
42  if a>=100 and a<=999 :
43      print("Number are three digit: ")
44  else :
45      print("number are not three digit")
46
47  # 7. Write a python script to check whether a given number is positive, negative or zero
48  a = int(input("Enter any number: "))
49  if a > 0 :
50      print("it is positive")
51  elif a < 0 :
52      print("it is negative")
53  else :
54      print("it is zero")
55
56  # 8. Write a python script to check whether a given quadratic equation has two real & distinct roots, real & equal roots or ima
57  from math import sqrt
```

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54      print("it is zero")
55
56  # 8. Write a python script to check whether a given quadratic equation has two real & distinct roots, real & equal roots or ima
57  from math import sqrt
58  print("Enter the quadratic equation: ")
59  a = float(input())
60  b = float(input())
61  c = float(input())
62
63  D = b**2 - 4*a*c
64
65  if D>0 :
66      x1 = (((-b) - sqrt(D))/(2*a))
67      x2 = (((-b) + sqrt(D))/(2*a))
68      print("The two real & distinct roots: ",x1,x2)
69  elif D == 0 :
70      x = (-b) / 2*a
71      print("it is real & equal root", x)
72  else :
73      print("It is imaginary:")
74
75  # 9. Write a python script to check whether a given year is a leap year or not.
76  print("enter the year: ")
77  year = int(input())
78  if year%4==0 and year%100!=0 or year%400==0:
79      print("it is leap year")
80  else :
81      print("it is not a leap year")
82
83  # 10. Write a python script to print greater among three numbers. Print number only once even if the numbers are the same.
84  print("enter the number: ")
85  number1 = int(input())
86  number2 = int(input())
87  number3 = int(input())
88  if number1>number2>number3 :
89      print("number1 is greater")
90  elif number2>number1>number3 :
```

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81      print("it is not a leap year")
82
83  # 10. Write a python script to print greater among three numbers. Print number only once even if the numbers are the same
84  print("enter the number: ")
85  number1 = int(input())
86  number2 = int(input())
87  number3 = int(input())
88  if number1>number2>number3 :
89      print("number1 is greater")
90  elif number2>number1>number3 :
91      print("number2 is greater")
92  elif number3>number1>number2 :
93      print("number3 is greater")
94  else :
95      print("all number are same ")
96
97  # 11. Write a python script to take the month value in numeric format and display the number of days in it.
98  MonthNumber = int(input("enter the month number: "))
99  if MonthNumber == (1,3,5,7,8,10,12) :
100     print("31 days")
101 elif MonthNumber == (2) :
102     print("28/27 days")
103 else :
104     print("30 days")
105
106 # 12. Write a python script to accept one complex number from the user and display the greater number between real part a
107 real = int(input("enter the number"))
108 imaginary = int(input("enter the number"))
109 z = complex(real,imaginary)
110 if real>imaginary :
111     print("real is greater")
112 else :
113     print("imaginary is greater")
114
115
116
117
```