

## DAY -2

Q1) You have to implement a logic to perform all arithmetic operations?

Sol:

```
>>> 2+3
5
>>> 5-4
1
>>> 3*2
6
>>> 7/3
2.3333333333333335
>>> 7%3
1
>>> 7//3
2
>>> 2**3
8
>>> 
```

Q2) biggest of 2 numbers?

Sol:

```
1 x = int(input("enter x value:"))
2 y = int(input("enter y value:"))
3
4 if(x > y):
5     print(x," is biggest integer")
6 else:
7     print(y," is biggest integer")
8
```

o/p:

```
SyntaxError: invalid syntax
PS C:\atom> python practise.py
enter x value:5
enter y value:6
6 is biggest integer
PS C:\atom> python practise.py
enter x value:8
enter y value:3
8 is biggest integer
PS C:\atom> 
```

Q3) biggest of 3 numbers?

Sol:

```
1 x = int(input("enter x value:"))
2 y = int(input("enter y value:"))
3 z = int(input("enter z value:"))
4
5 if((x > y) and (x > z)):
6     print(x, " is biggest integer")
7 elif((y > x) and (y > z)):
8     print(y, " is biggest integer")
9 else:
10    print(z, " is biggest integer")
11
```

o/p:

```
PS C:\atom> python practise.py
enter x value:5
enter y value:6
enter z value:4
6 is biggest integer
PS C:\atom> python practise.py
enter x value:8
enter y value:4
enter z value:6
8 is biggest integer
PS C:\atom> 
```

Q4)print numbers in a given range?

Sol:

```
1 for i in range(5,101):
2     print(i, end = ' ')
3
```

o/p:

```
PS C:\atom> python practise.py
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 9
7 98 99 100
PS C:\atom> 
```

Activate Windows  
Go to Settings to activate Windows.

Q5) generate even numbers and odd numbers?

Sol:

```
1  n = int(input("enter a number:"))
2
3  print("even numbers are:")
4  for i in range(1,n):
5      if(i % 2 == 0):
6          print(i, end = ' ')
7  print(end = "\n")
8  print("odd number are:")
9  for i in range(1,n):
10     if(i % 2 != 0):
11         print(i, end = ' ')
12
```

o/p:

```
PS C:\atom> python practise.py
enter a number:100
even numbers are:
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94
96 98
odd number are:
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93
95 97 99
PS C:\atom>
```

Q6) generate a table based on user input?

Sol:

```
1  n = int(input("enter a number:"))
2
3  for i in range(1,11):
4      print(n," * ",i," = ",n*i)
5
```

```
PS C:\atom> python practise.py
enter a number:5
5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
5 * 6 = 30
5 * 7 = 35
5 * 8 = 40
5 * 9 = 45
5 * 10 = 50
PS C:\atom>
```

o/p: