NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL
DATA SCIENCE LAB ASSIGNMENT-1

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Section: A

1.

```
x=3
y=4.1
z=5.0214
print(x,y,z)
```

```
x=3
y=4.1
z=5.0214
print(x,y,z)

3 4.1 5.0214
```

2.

```
x=int(input("Emter first no "))
y=int(input("Emter second no "))
sum=x+y
print("sum is " + str(sum))
```

```
Emter first no 8
Emter second no 6
sum is 14
```

3.

```
x=int(input("enter year "))
if x%400==0  or x%4==0 and x%100!=0:
  print(str(x)+" is a leap year")
else:
  print(str(x)+" is non leap year")
```

```
enter year 2100
2100 is non leap year
```

4.

```
x=5
y=6
print("Before swapping" +" x=" +str(x)+ "  y=" +str(y))
z=x
x=y
y=z
print("After swapping" +" x=" +str(x)+ "  y=" +str(y))
```

```
⤷   Before swapping x=5  y=6
    After swapping x=6  y=5
```

5.

```
x=5
y=6
print("Before swapping" +" x=" +str(x)+ "  y=" +str(y))
x=x+y
y=x-y
x=x-y
print("After swapping" +" x=" +str(x)+ "  y=" +str(y))
```

```
⤷   Before swapping x=5  y=6
    After swapping x=6  y=5
```

6.

```
x=input("enter a char to know its ascii value")
print("the ascii value of "+x +" is ", ord(x))
```

```
    enter a char to know its ascii valuep
    the ascii value of p is  112
```

7.

```
x=int(input("enter a no to know its square root"))
print(x ** 0.5)
```

```
⤷   enter a no to know its square root2
    1.4142135623730951
```

8.

```
import random
print(random.randint(0,15))
```

```
▶   import random
    print(random.randint(0,15))

    13
```

9.

```
a=[0,1,2,3,4,5,6,7,8,9]
print(a[6:])
print(a[:6])
print(a[3:8])
```

```
[6, 7, 8, 9]
[0, 1, 2, 3, 4, 5]
[3, 4, 5, 6, 7]
```

10.

```
h=int(input("enter the height "))
b=int(input("enter the base "))
area=0.5*h*b
print("Area of the triangle is ", area)
```

```
enter the height 5
enter the base 4
Area of the triangle is  10.0
```