QUIZ 01 PF **(BSDSF23)**   16-10-2023

Roll No: Name:

Write the statements to print space separated three integers of your own choice.

Write the statements that inputs a real number from user and display its half.

Write code of the following function to return bool value True/False, depending upon the argument N is a perfect square or not.

def isSquare(N):

Write code of the following function to return the largest of it is four arguments.

def largestArg (w, x, y, z):

When light moves from one medium to another as in the figure to the right, it changes direction, i.e. it is refracted. If it goes from a medium with refractive index n_1 to one with refractive index n_2, with an incidence angle to the surface normal of θ_1, the transmission angle θ_2 can be calculated from Snell's law: $n_1 \sin \theta_1 = n_2 \sin \theta_2$. If θ_1 is 45 degree and index n_1 is 1, write a program that take values of θ_2 from user and print the value of n_2.

Dry Run the following code.

```python
f1 = 1
f2 = 2
f3 = 5
print(f2, end="")
f = f1 + f2 + f3
while f <= 100:
    print(", ", f, end="")
    f1 = f2
    f2 = f3
    f3 = f
    f = f1 + f2 + f3
print()
```