## 

**DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY**

**Course: B.Tech(CSE)  Subject: Programming for Problem Solving using Python(CSW208B)**

***Lab -3:*** *Programming constructs in python -hands-on practice*

***Learning Outcome* :**

CSW208B.1: To **impart** understanding of basic programming concepts in python language.

CSW208B.2: To enable the student to articulate given program scenario and **apply** different programming constructs.

***Blooms Taxonomy Level****: BT1, BT2*, *BT3*

1. Write a python program to swap two numbers using a third variable

A=int(input("Enter the first number: "))

B=int(input("Enter the second number: "))

print("Before swapping: ",A,B)

C=A

A=B

B=C

print("After swapping: ",A,B)

1. Write a python program to swap two numbers without using third variable

A=int(input("Enter the first number: "))

B=int(input("Enter the second number: "))

print("Before swapping: ",A,B)

A=A+B

B=A-B

A=A-B

print("After swapping: ",A,B)

1. Write a python program to read two numbers and find the sum of their cubes

A=int(input("Enter the first number: "))

B=int(input("Enter the second number: "))

print(A\*\*3+B\*\*3)

1. Write a python program to read three numbers and if any two variables are equal, print that number

A=int(input("Enter the first number: "))

B=int(input("Enter the second number: "))

C=int(input("Enter the third number: "))

if A==B:

print(A)

elif B==C:

print(B)

elif C==A:

print(C)

else:

print("Variables do not match")

1. Write a python program to read three numbers and find the smallest among them

A=int(input("Enter the first number: "))

B=int(input("Enter the second number: "))

C=int(input("Enter the third number: "))

if A<B and A<C:

print("Smallest Number= ",A)

if B<A and B<C:

print("Smallest Number= ",B)

if C<A and C<B:

print("Smallest Number= ",C)

A=int(input("Enter the first number: "))

B=int(input("Enter the second number: "))

C=int(input("Enter the third number: "))

Min=min(A,B,C)

print(Min)

1. Write a python program to read three numbers and print them in ascending order (without using sort function)

A=int(input("Enter the first number: "))

B=int(input("Enter the second number: "))

C=int(input("Enter the third number: "))

Min=min(A,B,C)

Max=max(A,B,C)

Mid=A+B+C-(Max+Min)

print(" ",Min,Mid,Max)

1. Write a python program to read radius of a circle and print the area.

A=int(input("Enter the first number: "))

B=int(input("Enter the second number: "))

C=int(input("Enter the third number: "))

Min=min(A,B,C)

Max=max(A,B,C)

Mid=A+B+C-(Max+Min)

print(" ",Min,Mid,Max)

1. Write a python program to read a number ,if it is an even number , print the square of that number and if it is odd number print cube of that number.

A=int(input("Enter the number: "))

if A%2==0:

print(A\*\*2)

else:

print(A\*\*3)

**Ref: https://www.zframez.com/tutorials/python-tutorial-and-exercises-p1.html**