Dept : Information Technology

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1) Write a python program to perform all arithmetic operations by accepting values for two variables.

Source Code:

```
a = eval(input("Enter a Number : "))
b = eval(input("Enter a Number: "))
print("a+b = ", a+b)
print("a-b = ", a-b)
print("a*b = ", a*b)
print("a/b = ", a/b)
print("a**b = ", a**b)
print("a//b = ", a//b)
```

Output : Enter a Number : 10
Enter a Number : 5
a+b = 15
a-b = 5
a*b = 50
a/b = 2.0
a**b = 100000
a//b = 2

2.) Write a python program to accept two values and swap them without using 3rd variable.

Source Code:

```
a = eval(input("Enter a value: "))
b = eval(input("Enter a value: "))
print("Before Swapping :- ")
print("a = ", a, ", b = ", b)
```

```
a,b = b,a
print("After Swapping:-")
print("a=", a, ", b=", b)
```

Output:
```
Enter a Value: 2
Enter a Value: 5
Before Swapping:-
a=2 , b=5
After Swapping:-
a=5 , b=2
```

3.) Write a python program to input time in seconds and convert to hour, minutes and seconds.

Source Code:
```
seconds= int(input("Enter time in Seconds: "))
hh = seconds // 3600
seconds %= 3600
mm = seconds //60
ss = seconds %.60
print("hours:", hh, ", minutes:" ,mm , ",seconds:", ss)
```

Output:
```
Enter time in seconds: 4325
hours:1 , minutes:12, seconds: 5
```

4.) A company wants to set target for each of the four regions (EAST, WEST, NORTH and SOUTH). The company allots the following percentage target for each region:

East	15%
West	25%
North	30%
South	30%

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Write a program in python to input total target and print out the breakup of the target for each region.

Source Code:

```
total = int (input ("Enter total target : "))
east = (15/100) * total
west = (25/100) * total
north = (30/100) * total
south = (30/100) * total
print ("East=", east, "\nWest=", west, "\nNorth=", north,
                                "\nSouth=", south)
```

Output: Enter total target : 150

East = 22.5

West = 37.5

North = 45.0

South = 45.0