1. All home works listed on my website: www.cse.sc.edu/~penumarp/index1.html
2. Convert the following numbers into different bases

DECIMAL	HEXA-DECIMAL	BINARY
512	200	1000000000
256	100	100000000
170	AA	10101010
2	2	10
0	0	00000000000000000000000000

3. Fkdk
4. Fill the following truth Tables for Variable Z:

X	Y	Z= X AND Y
0	0	0
0	1	0
1	1	1

X	Y	Z= X OR Y
0	0	0
0	1	1
1	0	1

X	Y	Z= X NAND Y
0	0	1
0	1	1
1	0	1

X	Y	Z= X NOR Y
0	0	1
0	1	0
1	0	0

5. Write Pseudo Code for an Algorithm that takes 3 numbers as input, and calculates an average of all the three numbers. Average for 3 numbers is defined as (n1+n2+n3)/3.
6. Why are binary numbers important in computing?
7. Which notation is used to write numbers?
8. $8_{10} + 9_{16} =$ _____$_{10}$_____
9. What will be printed by the code snippets below?

```
If (Sun rises in east)
   print("True")
Else
    print("False")
```

10. Set x to 25

```
while(x>0)
        print(x)
        Set x to x-1
```

11. Set x to 25

```
while(false AND x>0)
        print(x)
        Set x to x-1
```

12. Set x to 25

```
while(true AND x>0)
        print(x)
        Set x to x-1
```

13. Set x to 25

```
while(FALSE OR x>0)
        print(x)
        Set x to x-1
```

14. Set x to 25

```
while(TRUE OR x>0)
        print(x)
        Set x to x-1
```

15. Set x to 25

```
while(TRUE NAND x>0)
        print(x)
        Set x to x-1
```

16. Set x to 25

```
while(TRUE NOR x>0)
        print(x)
        Set x to x-1
```