## Assignment 1 (ITP203-Theory)

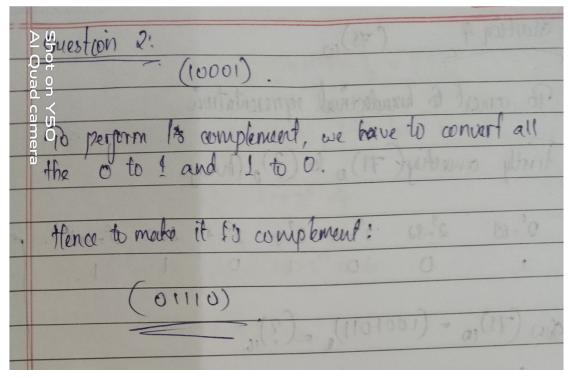
Question 1

Perform the 2's complement on Binary Number (01110) and note down the result.

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*	Question J. (01110).
	many (a croster those that dathern alled)
	To perform 2's complement, we should pass through performing
	1's complement.
	interest transfer
	(01110) -> Po pt 1's composement
	Lp (10001)
	Then performing 2's peomplement;
	10001
	+ 1
	10010
	By adding I we accomplish performing 2's complement and
	the result i:
	10010

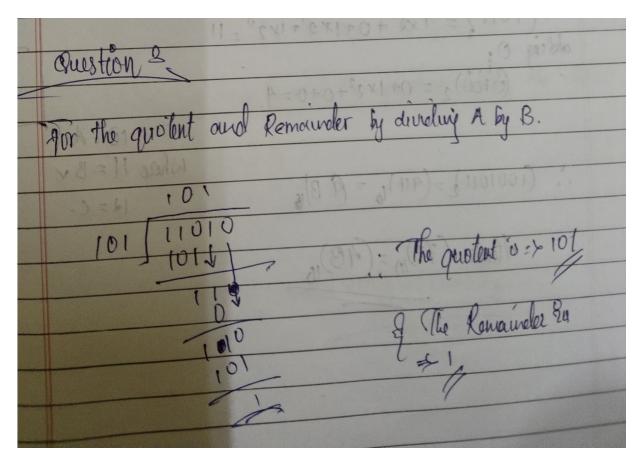
## Question 2

Perform the 1's complement on (10001).



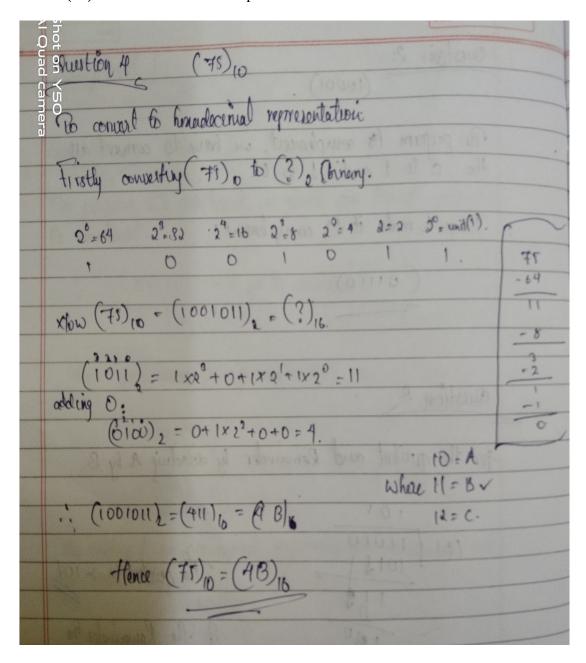
Question 3

You have A = 11010 and B = 101. Divide A by B and find the Quotient and Reminder.



Question 4

Convert (75) 10 into Hexadecimal representation?



## Question 5

(776) 8 + (010110111) 2 = (?) 8.

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can	Jourtion 5: (776) + (010110111) = (?)8
nera	> (776) + (010110111) = (?)8
	Converting have a ((OLDHOLLI)2 to here & = (3)8.
	1
	$(111)_2 = 1 \times 2^2 + 1 \times 2^1 + 1 \times 2^0 = 7.$ 8/13
	$(10)_2 = 1 \times 2^2 + 1 \times 2^1 + 0 \times 2^0 = 6.$ 854
	( ) = 0+1×1+0
	(010) 2 = 0+ 1×2 +0 = 2.
	SIDILO D. T.) OMO
	(DIO11011) 2 = (D67)8, 8/10),
	in a final water was the above
	You we have to add the question using the store
	egn (D)
	(776) (776)
	(264)8
	1265
	(770), 7 (DIONOIN) 2=(1265) 8

## Question 6

WAP in C using While-Loop/Do-While Loop to find a Fibonacci series of "N" number of terms.

```
#include <stdio.h>
int main(){
       int N, i, a, b, c;
       printf("Number for Fibonacci series: ");
       scanf("%d", &N);
       i=1;
       a=0;
       b=1;
       while(i \le N){
              printf("%d\n", a);
              c = a + b;
              a = b;
              b = c;
              i++;
       return 0;
}
Question 7
WAP in C using While-Loop/Do-While Loop to find if a number (any digit) is Armstrong
Number.
#include <stdio.h>
int main()
 int num, original, rem, sum = 0;
 printf("Enter a three-digit Number: ");
 scanf("%d", &num);
 original = num;
 while(original != 0){
  rem = original%10;
  sum =sum + rem*rem*rem;
  original=original/10;
 if(sum == num)
  printf("%d is an Armstrong number.",num);
 else
  printf("%d is not an Armstrong number.",num);
```

```
printf("\n");
return 0;
```