

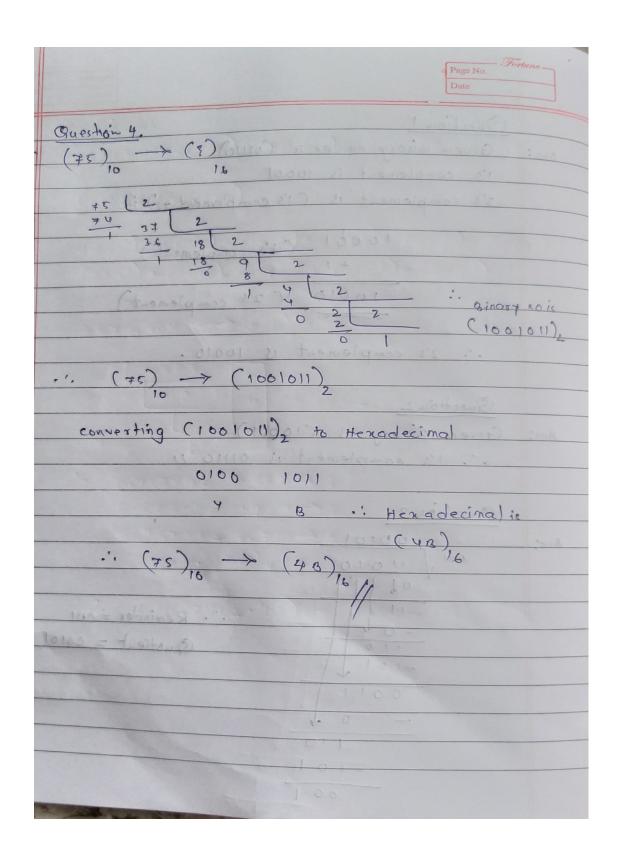
GYALPOZHING COLLEGE OF INFORMATION TECHNOLOGY



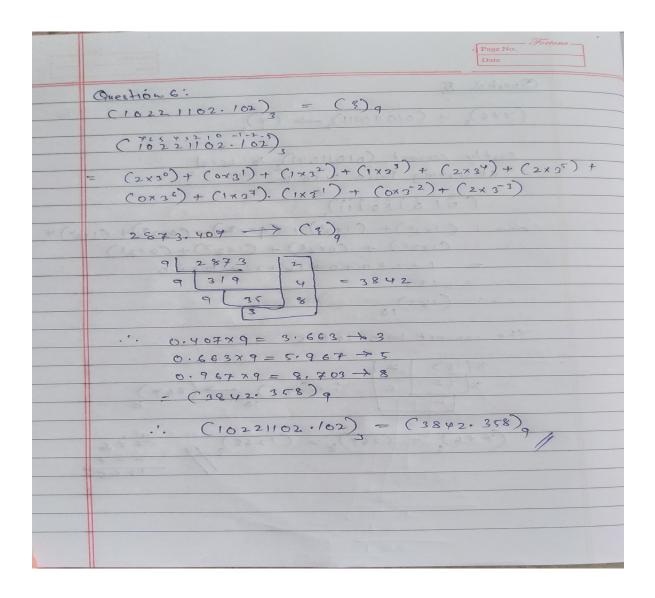
Assignment 1 C Programming ITP203

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1000000	
	Page No.
	Question 1
Ans:	
Ans	Given Binary number is (01110)
	1's complement is 10001
	2's complement is (1's complement +1) i.e
	1000) (1's complement)
	+1 (13 complement)
	10010 (2's complement)
Car	(2's complement)
	· 2's complement 15 10010.
	Quectión 2
Ans:	4
Ans.	Given Binary is (10001)
	.'. I's complement is 01110 //
	Question3
Ans',	101 (11010)
	01 11010
	.'. Reminder = 001
	110 Quotient = 00101
	0011
	- 0
	110
	001



	Fortune —
	Page No. Date
	Question 5
	(746), -1 (010110111), -> (3),
	(116)8 - (0)0110111) -> (3)8
	Truth on 1 Company
9 ()	converting have 2 to 10
	nase 2 to 10
	(876) 73216)
	NOW: (1x20)+ (1x21)+ (9x22)+ (0x23)+ (1x24)+
	(1x25) + (6x26) + (1x27) + (0x28)
	= 1+2+4+0+16+32+128+0
	- 183
	. '. (183)10
	Pt -
	The convert base 10 to 8
	8 (183 7
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	2 10 8
	(1922402.102) and (3842.352)
	$(7+6)_8 + (267)_8 = (1265)_8 / 7+6$
	12.65
	1-65



Question7

```
#include <stdio.h>
int main() {
  int x1 = 0, x2 = 1, nextTerm = 0, n;
  printf("Enter a positive number: ");
  scanf("%d", &n);
  printf("Fibonacci Series: %d, %d, ", x1, x2);
  nextTerm = x1 + x2;
  while (nextTerm <= n) {
    printf("%d, ", nextTerm);
    x1 = x2;
    x2 = nextTerm;
  nextTerm = x1 + x2;
  }
  return 0;
}</pre>
```

Output

```
Activities ☐ Terminal ▼ tsheldee@tsheldee: ~/Desktop/Assignment c

tsheldee@tsheldee: ~/Desktop/Assignment c$ gcc Question7.c

tsheldee@tsheldee: ~/Desktop/Assignment c$ ./a.out

Enter a positive number: 34

tsheldee@tsheldee: ~/Desktop/Assignment c$ gcc Question7.c

tsheldee@tsheldee: ~/Desktop/Assignment c$ gcc Question7.c

tsheldee@tsheldee: ~/Desktop/Assignment c$ ./a.out

Enter a positive number: 9

Fibonacci Series: 0, 1, 1, 2, 3, 5, 8, tsheldee@tsheldee: ~/Desktop/Assignment c$ □
```

```
Question 8
#include <stdio.h>
int main() {
int num, Number, remainder, result = 0;;
printf("Enter a three-digit number: ");
scanf("%d", &num);
Number = num;
while (Number != 0) {
// remainder contains the last digit
remainder = Number % 10;
result += remainder * remainder;
// removing last digit from the orignal number
Number = Number/ 10;
}
if (result == num)
printf("%d is an Armstrong number.", num);
printf("%d is not an Armstrong number.", num);
printf("\n");
return 0;
```

Output