



MONAD University
N.H. 24, Delhi Hapur Road,
Village & Post Kastla, Kasmabad, P.O Pilkhuwa - 245304,
Dist. Hapur (U.P.), India

Assignment No: 2

Programme (Branch)/Sem:.....

Course Name:-.....

Submitted by :-

Candidate's Name:.....

Enrollment No.:-

Roll No. :-

Date of Submission:-

Submitted to:-

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Programme: Diploma (CS-IIIrd Sem)

Course Name: Programming in C

Course Code: DIPCS-211

Assignment No: 2

Due date of submission: 23.10.2017

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

- a) As you are aware of pre-defined functions very well, you will gain more knowledge if you explain the following with suitable examples:
- i) switch case
 - ii) go to statement
 - iii) break and continue
 - iv) conditional statement/operator
 - v) increment (++) and decrement(- -) operators
 - vi) storage classes in C.
- b) As we have done lots of practicals in the LAB, you will learn more if you write the programs for the following problems:
- Print the following series:
- i) $+ 1 - 2 + 3 - 4 + 5 - 6 + 7 - 8 + 9 - 10 \dots$
 - ii) $(1*1) + (2*2) + (3*3) + (4*4) + \dots$
 - iii) Fibonacci Series
 - iv) Factorial of a Number.

Q.2

- a) As you know the syntax and applications of loop control statements very well. You may learn more if you write *two examples* each of the following loop statements:
- i. do
 - ii. do while
 - iii. for
- b)
- i) Explain the term '*Recursion*' with example. Is it possible to use recursion in place of a Loop? If yes, then explain with the help of an example to prove it.

ii) Write a program to print the multiplication table of the number entered by the user. The table should get displayed in the following form.

$$2 * 1 = 2$$

$$2 * 2 = 4$$

...



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Programme: Diploma (CS-IIIrd Sem.)
Course Name: System Software & Operations
Course Code: DIPCS-213
Assignment No: 2
Due date of submission: 23.10.2017

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

- a) You are aware of Thread. Define thread. Also discuss single threaded and multi-threaded systems with the help of suitable diagram.
- b) You know the concept of Inter Process Communication (IPC). You will learn more about IPC, if you discuss shared memory system in detail. Do it.

Q.2

- a) You are aware of memory management. Explain single partition and multiple partition system in detail.
- b) Differentiate the following:
 - I. Implicit and Explicit Tasking
 - II. Independent and Cooperative Processes



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Programme: Diploma (CS-IIIrd Sem.)

Course Name: Discrete Mathematics

Course Code: DIPCS-214

Assignment No: 2

Due date of submission: 23.10.2017

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

a) As you are aware of Mathematical Induction. So, use induction to show that

$$1^2 + 3^2 + \dots + 5^2 = \frac{n(n-1)(2n+1)}{3}$$

b) As you are aware of Group Theory. So, you can explain Group, Semi-group, Abelian group. Do it.

Q.2

a) As you are aware of Group Theory. So, you can show that the set $\{1,2,3,4,5\}$ is not a group under addition and multiplication modulo 6. Do it.

b) As you know about Tautology. So, you can show that $[(p \vee q) \wedge \sim (\sim p \wedge (\sim q \vee \sim r))]\vee(\sim p \wedge \sim q)\vee(\sim p \wedge \sim r)$ is tautology by using truth table. Do it.



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Programme: Diploma (CS-IIIrd Sem.)
Course Name: Electrical & Electronics Engineering
Course Code: DIPCS-215
Assignment No: 2
Due date of submission: 23.10.2017

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

(a) Make a difference between the following terms:

निम्न लिखित के मध्य अन्तर स्थापित कीजिये

- i) Average value and maximum value
औसत मान और उचतम मान
- ii) Peak value and cycle
उच्च मान और चक्र
- iii) Frequency and amplitude
आवृत्ति और आयाम

(b) How many supply are commonly present in India? Draw the phase and graph diagram of all the supply system.

भारत वर्ष में कितने प्रकार की सप्लाई पाई जाती है। भिन्न भिन्न प्रकार की सप्लाई का सचित्र वर्णन कीजिया

Q.2

(a) What do you understand by the following terms:

निम्नलिखित से आप क्या समझते हैं।

- i) Active and passive elements
एक्टिव तथा पैसिव पद
- ii) Resistance and inductor
प्रतिरोध तथा प्ररण
- iii) A.C. and D.C.
एसी तथा डीसी

(b) Find the value of current in 3 ohm resistance in the given figure by using KVL.
दीये गये चित्र में 3 ओम प्रतरोध के अन्दर धारा का मान ज्ञात कीजिये।

