(b) Slide preparation

13. Conclusion

Lab assessment on Application packages use: 1. Cover page (p) 2. Introduction to electronic word processing with example. (H) 3. List the features of electronic word processing. (H) 4. Define the term: (H) (a) Hard page break (b) Soft Page break (c) document proof (d) Header and footer (e) alignment (f) Indentation (g) Mail Merge (j) bullets and numbering (k) hard carriage return (h) TOC (i) word wrap (I) soft carriage return 5. Practical work out: (P) (a) Documentation: i. Study your personal computer system and prepare report on it describing basic computer system devices, peripheral specifications being used along with the brief notes on various software installed with their purpose of operation. ( Newspaper sample, CV design, Question paper, report writing, book writing (b) Designing objects (to support multimedia) Identity card (single person, multiple persons), calendar, Ludo structure (autoshape use), Customization of photo for passport size Report preparation with data analysis 6. Introduction to electronic spreadsheet with example. (H) 7. List the features of spreadsheet. (H) 8. Define the term: (a) Worksheet (b) workbook (c) cell (d) formula (e) chart (f) Database (h) data filter (i) What-if analysis 9. Practical work out: (P) (a) Simple worksheet preparation (b) chart preparation (c) database with queries (d) what-if analysis (e) a research work out 10.Introduction to Power Point Presentation (H) 11.List its features. (H) 12. Practical work out:

# PATHSHALA NEPAL FOUNDATION

# PRE-UNI PROGRAM

Baneshwor, Kathmandu



Lab assessment report on Use of Application Package

Submitted By:	Submitted To
Name:	Department of Computer Science
Class:	PATHSHALA NEPAL FOUNDATION
Section:	
Date:	

[Note: every printed document should contain header Containing Lab report on application packages and Footer containing Prepared by: Your name.]

## Practical work out based on electronic word processing:

### Based on documentation:

- Prepare a CV of a person following the guideline given below:
- Select paper type as letter or size of 8.5"x11".
- Set the top, bottom, right and left margin as 0.5" each.

Type the following text in MS-Word and format it as shown below:

• Set the font type "ARIAL" and font size for heading 14 and for normal text as 12.

# Curriculum Vitae

Name: : Ramesh Raj Rijal

Nationality : Nepalese

Date of Birth : January 2, 1975

Marital Status : Unmarried

Address : Ward No.4, Kanchanbari, Biratnagar, Nepal

### **Academic Qualification:**

Bachelor's Degree Tribhuwan Unversity, Kathmandu

In Commerce

Pre-University St.Xavier College, TU, Kathmandu

(1992-1994)

School Leaving Certificate National High School, Kathmandu, Nepal.

(1991)

# **Computer Skill:**

6 months course in Software Technology and System Management from DSI, Kathmandu Centre.

- Make line spacing 1.5.
- Place a photo (one clipart) in the box provided.
- Change the name of the person to capital letters.
- Change the word unmarried with appropriate antonym.
- Supply the current date as header to right edge of the document.

# Prepare a news paper sample as given below following the guideline as stated below:

- 1. Set the margin to the document TOP, BOTTOM, LEFT, RIGHT, header and footer all as 0.5" each. Also select the paper size and define as custom with width 8.5" and height 11.5".
- 2. Select the font type as Arial with size 12.
- 3. Type the text for the first paragraph in full justified mode as given below.
- 4. Change the line space in the first paragraph into 1.5 lines (space as one and half line) after typing the text.
- 5. Supply the border to the first paragraph as 3-D border and also shade it with green color.

#### An Example of changing Linespace<sup>1</sup> and Shading<sup>2</sup> with fixed Border<sup>3</sup> to the selected text:

An object in word processing implies us for either a picture, or chart or graph or a table prepared by using another application software and possible to bring in word document through insertion or import. Such objects in document help to present the information more systematic, descriptive and attractive too.

- 6. Supply the footnote to the word Linespace as "The Space between two textual lines", Similarly Shading with "The process of coating or filling the specified color to the selected text/picture/table" and Border with "The boundary line fixed to the selected text or picture or table"
- 7. Type the heading as "A sample of newspaper presentation:". Format the document with 3 columns from the description forward. Define space between column as 0.2" each.
- 8. Change the font size into 10 and type the text as it is as given below:

#### A sample of newspaper presentation:

### FRIENDSHIP:

It is the attachment between two persons through pure heart and sacrifice. The true friendship always provides people a very good support to solve problems in their lives through the mutual help,

sharing etc. It helps to form their lives in

better aspects.

friendship.

Unity among the people is not possible without the true means of friendship. Therefore, to get true friends in life means to be united in the society.

#### TABLE SORT:

It is an additional feature of TABLE use in the document. It implies us for the process of organizing data/ information in table either in ascending or descending order. In the table the data can be sorted column wise form only.

	MARKS SCORED									
$-b-\sqrt{b}$	<sup>∠</sup> – <b>C4500(</b> Th)	CSc(Pr)								
$x = \frac{1}{2}$	$\overline{a}$									
	a									
NAME										
NAVIN	30	40								
JYOTI	40	45								
ASHISH	38	40								
GAURAV	35	42								
MAHIM	36	40								
ZENAS	40	40								

#### INSERTING EQUATION AS AN OBJECT:

The relation to solve quadratic equation are:

#### INSERTING DRAWING OBJECT:

$$x = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$



#### An example of showing text effect:

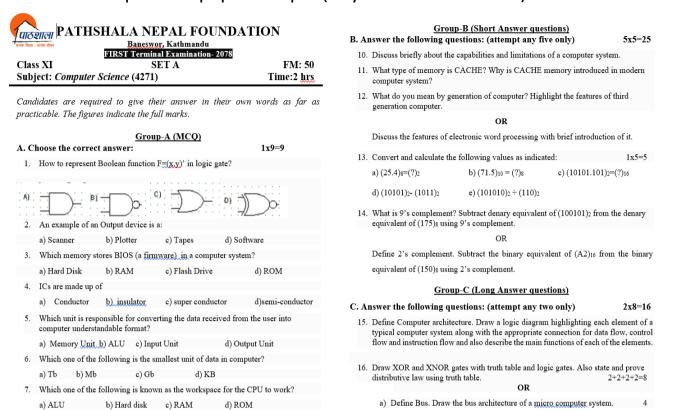
- $(a+b)^2=a^2+2ab+b^2$
- H<sub>2</sub>+O<sub>2</sub> = 2H<sub>2</sub>O
- 9. In the above table sort the data in ascending order on the basis of Name of the student.
- 10. Save the document as PRAC.DOC inside the folder you have created.

<sup>&</sup>lt;sup>1</sup> The Space between two textual lines

<sup>&</sup>lt;sup>2</sup> The process of coating or filling the specified color to the selected text/picture/table

<sup>&</sup>lt;sup>3</sup> The boundary line fixed to the selected text or picture or table

## A formal question paper sample (of your terminal exam)



b) Write short notes on: (any two)

Prepare a TOC for a complete document (e.g. book or report)

d) 0110

 Prepare invitation card as given alongside for the different personnel.

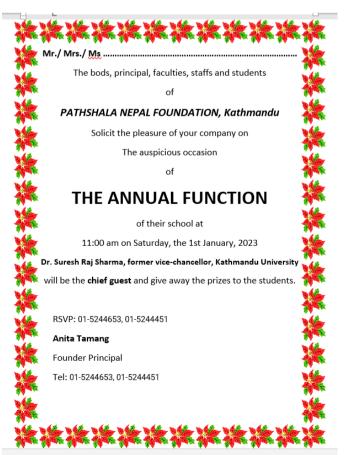
b) 0101 c) 1011

The 2's complement of (10)<sub>10</sub> is

9. The octal equivalent of (0.5)10 will be

a) 0.5 b) 0.625 c) 0.25 d) 0.4

NAME	ORGANIZATION	CONTACT	DESIGNATION
		ADDRESS	
RAM K.C.	ABC EDUCATION	JAWALAKHEL,	CEO
	FOUNDATION	LALITPUR	
SITA	NEW MOON	TAUMADHI,	PRINCIPAL
SHARMA	SCHOOL	BHAKTAPUR	
HARI	GLOBAL	BANESWOR,	MANAGING
KHADKA	EDUCATION	KATHMANDU	DIRECTOR
	FOUNDATION		
NARESH	LITTLE ANGLES'	LALITPUR	PRINCIPAL
SHRESTHA	SCHOOL		
SHYAM	ST. JOSEPH	LALITPUR	PRINCIPAL
BYANJANKAR	SECONDARY		
	SCHOOL		



I) Microprocessor II) Mobile computing III) Hard copy output device in COV

\*\*\* ALL THE BEST \*\*\*

Go to Settings to active

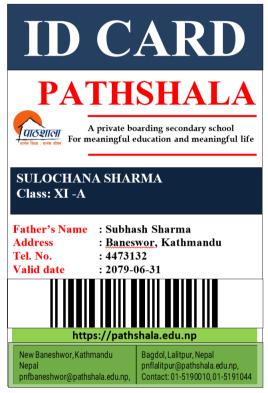
### Based on design of different objects:

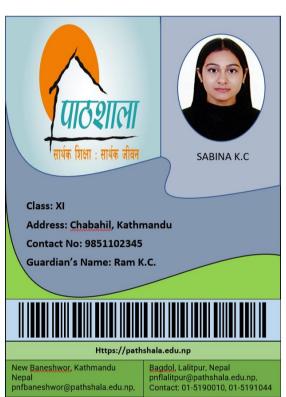
• Prepare identity cards with barcode for the following students as illustrated below:

Regd no	Name	Grade	Section	Father's name	Address	Tel no
79001	RAM K.C.	XI	Α	RAMESHWOR K.C.	Baneswor,	4455342
					Kathmandu	
79002	HARI	XI	Α	GOPAL SHRESTHA	Gaushala,	4423423
	SHRESTHA				Kathmandu	

Add any 10 different students detail yourself.

Barcode should be prepared for the regd no (registration number)

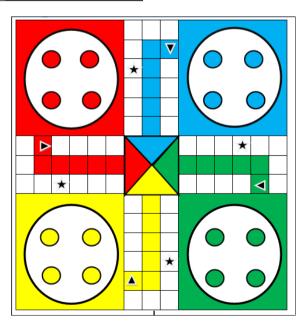




- Design a Ludo using drawing objects as shown alongside.
- Design a calendar of month falgun and Chaitra 2079.
   (Hint: table insertion and format)

e.g.

	FAI	_GUN	FEB/	MAR			ITRA		MAR	/APR	
2074				2018		2074		2018			
	6 18	13 25	20	27 13	SUNDAY		4 18	11 25	18	25 8	
	7 19	14 26	21	28 12	MONDAY		5 19	12	19	26 9	
1 13	8 20	15 27	22	29 13	TUESDAY		6 20	13	20	27 10	
2 14	9 21	16 28	23	30 14	WEDNESDAY		7 21	14	21	28 11	
3 15	10 22	17	24		THURSDAY	<b>1</b>	8	15 29	22	29	
<b>4</b> 16	11 23	18	25 9		FRIDAY	2	9 23	16 30	23		
5 17	12 24	19 3	26 10		SATURDAY	3	10 24	17 31	24 7		



### Practical work out (spreadsheet)

1. Create a worksheet as shown given below:

	А		В	C D	E	F	G	Н				
1				A-1 OFFICE								
2		RAM SHAH PATH, KATHMANDU										
3		PROJECTION OF INCOME IN DIFFERENT FIELDS (IN US\$)										
4	S.No	YEAR	CONSULTANT	HARDWARE	SOFTWARE	MAINTENANCE	TOTAL					
				SALES	SALES							
5	1.	1995	400	2000	5000	500	?					
6	2.	1997	?	?	?	?	?					
7	3.	1999	?	?	?	?	?					
8	4.	2001	?	?	?	?	?					
	5.	2003	?	?	?	?	?					
	6.	2005	?	?	?	?	?					
	7.	2007	?	?	?	?	?					
9	8.	2009	?	?	?	?	?					
10		TOTAL:	??	??	??	??	???					
11		Maximum	?	?	?	?	?					
12		Minimum	?	?	?	?	?					
13		Average	?	?	?	?	?					

(b) From the evaluation of Income projection for every two years, it was found that the income of the office from the descriptions given below changed as follows:

Consultant – 5% more than the previous income
Hardware sales – 10% more than the previous income
Software sales – 5% less than the previous income
Maintenance – 5% more than the previous income

Calculate the income in each field accordingly

- (c) Format all amount with currency \$.
- (d) Calculate the year wise total income.
- (e) Also calculate field wise total and the grand total income as stated above.
- (f) Find out the Maximum, minimum and average sales of each type of software separately as specified above.
- (g) Prepare a line graph to analyse yearly income in each field with the supply of suitable title, legend.
- (h) Extract all the records of different years having software sales greater than or equal to 4000.
- (i) Save the worksheet as income.
- 2. Prepare a worksheet as given below carrying out the necessary work out as stated below:

The state of the s	А	В	С	D	Е	F	G	Н				
1		WHO, UN										
2		NEPAL CHAPTER										
3		ANALYSIS ON DISEASES										
4	S.N.	Year	Diabetes	Diarrhea	Cancer	Hypertension	Total					
5	1.	1995	40000	60000	10000	50000						
6	2.	1997	?	?	?	?	?					
7	3.	1999	?	?	?	?	?					
8	4.	2001	?	?	?	?	?					
9	5.	2003	?	?	?	?	?					
10	6.	2005	?	?	?	?	?					
11	7.	2007	?	?	?	?	?					
12	8.	2009	?	?	?	?	?					
13												
14		Total	?	?	?	?	?					
15		Maximum	?	?	?	?	?					
17		Minimum	?	?	?	?	?					
18		Average	?	?	?	?	?					

From the data being recorded for every two years, it was found that the diseases recorded have been changed as follows:

• Diabetes – 5% more than every previous two years

• Diarrhea - upto 2005, 3% more than the every previous two years and from 2007

decreased by 2%

Cancer – 2.5% more than every previous two years

Hypertension – 2% more than every previous two years

- Calculate the number of patients with the respective diseases accordingly.
- Calculate total, maximum, minimum, average patients of each type.
- Format all the data with thousand separators without any decimal places.
- Prepare column graph to analyse patients of different types based on different years with supply of suitable titles, and legend.
- Prepare column graph to analyse number of patients in different years based on type of disease supply of suitable titles, and legend..
- Extract the number of sick people with disease DIABETES more than or equal to 50000 and HYPERTENSION more than or equal to 56000 with the corresponding year.
- Save the worksheet as disease analysis.
- 3. Prepare the worksheet as given below:

	А	В	С	D	Е	F	G	Н		
1			SALARY CH	ART DESCRIPTION		TUS CORP.				
2				Sanepa, Lali	ipur					
4										
4	S.No	name	Designation	Department	Basic salary	Allowance	Gross	PF	TAX	NET
5	1.	Lochan Subedi	MANAGER	ADM		?	?	?	?	?
6	2.	Naresh Bhattarai	OFFICER	ACCOUNT		?	?	?	?	?
7	3.	Manav Pandey	ASSISTANT	ADM		?	?	?	?	?
8	4.	Mandira K.C.	SECRETARY	ACCOUNT		?	?	?	?	?
9	5.	Salim Javed	MESSANGER	ADM		?	?	?	?	?
10	6.	Salina Manandhar	OPERATOR	EDP						
11	7.	Manoj Bajracharya	ASSISTANT	MARKETING						
12	8.	Raju Upadhya	ASSISTANT	MARKETING						
13	9.	Sonam Gyatso	ASSISTANT	ACCOUNT						
14	10.	Tripti Tuladhar	ASSISTANT	EDP						
15	11.	Krishna Chipalu	OPERATOR	EDP						
16	12.	Santosh Shrestha	DIRECTOR	ADM						
17		GRAND TOTAL:								??
18		Maximum					?			?
19		Minimum					?			?
20		Average					?			?

- (b) Insert two records of "Ganesh Shakya" and "Sudeep Rai" who are working in MARKETING and EDP departments as OFFICERS respectively between the records of "Manay Pandey" and "Mandira K.C.".
- (c) Also add some records
- (d) Calculate Basic salary as follows:

Director=>65000, Manager=>55000, Officer=>45000, Operator->40000, Secretary=>40000, Assistant=>35000, Messanger=>20000

(e) Calculate Allowance as 15% of Basic Salary to all employees. Also calculate GROSS AMOUNT, PF, TAX and NET AS follows:

Gross=BSAL + ALLOWANCE

PF = 10 % OF Gross

TAX = If Gross  $\Rightarrow$ =10000, tax=10% of Gross otherwise no tax.

NET = Gross - PF - TAX

- (f) Find out the Maximum, Minimum and Average of Gross and NET separately.
- (g) Format all amount with default currency symbol.
- (h) Extract all the employees records who are drawing Gross salary more than or equal to 50000.
- (i) Save the worksheet as salary sheet.

4. The following case is one of the human daily life oriented problems related to a business organization. It's concerned with the preparation of pay-roll sheet of Blue Star business house.

Bluestar Business Company has got the following manpower. Prepare a monthly salary chart specifying all the details as stated below, following all the criteria and strategies as specified:

	Α	В	С	D	Е	F	G	Н	1	J	K	L
1							INESS HOUSE					
2							, KATHMANDU					
3					PAY-R	OLL DE	SCRIPTION					
4	S. N.	NAME	DEPARTMENT	POST	JOB STATUS	BASIC SALARY	Housing ALLOWANCE	Special ALLOWANCE	GROSS	PF	TAX	NET
5	1.	Asim Thapa	Marketing	Manager	Р							
6	2.	Leena Shakya	Accounting	Sr.Officer	Р							
7	3.	Deepak Newa	EDP	Supervisor	Р							
8	4.	Bijeta Khatri Cheetri	Administration	Assistant	Р							
9	5.	Binamra Hada	Marketing	Officer	Т							
10	6.	Gopal Pandey	Accounting	Assistant	Р							
11	7.	Jeevan Tuladhar	Marketing	Sr. Officer	Т							
12	8.	Navin Shrestha	Marketing	Assistant	Т							
13	9.	Kabita Amatya	Accounting	Assistant	Р							
14	10.	Krishna Chipalu	EDP	Operator	Т							
15	11.	Santosh Shrestha	Administration	Director	Т							
16	12.	Rajesh Khen Dhau	Administration	Officer	Р							
17	13.	Sweta Shakya	EDP	Operator	Т							
18	14.	Salina Manandhar	EDP	Operator	Р							
19	15.	Manoj Bajracharya	Marketing	Assistant	Р							
20	16.	Raju Upadhya	Marketing	Assistant	Т							
21	17.	Sonam Gyatso	Accounting	Assistant	Т							
22	18.	Tripti Tuladhar	Administration	Assistant	Р							

23	19.	Arun Gopal	Administration	Assistant	Р					
		Shrestha								
24	20.	Ram Bdr.	Marketing	Peon	Р					
2-7		Singh	3							
25	21.	Kalu Rana	Administration	Peon	Р					
		Magar								
26	22.	Shailu	Administration	Secretary	Р					
		Balambu		,						
		GRAND TOTAL						?	?	?

- 1. The BASIC SALARY was fixed for the personnel as follows:
  - DIRECTOR  $\rightarrow$  50000. MANAGER  $\rightarrow$  40000, Sr.Officer  $\rightarrow$  35000, Officer  $\rightarrow$  32000, Secretary $\rightarrow$ 25000, Assistant $\rightarrow$  20000, Peon 15000, Supervisor $\rightarrow$ 30000, Operator $\rightarrow$ 25000
- 2. The employees, who are Permanent (Job status  $\rightarrow$ P), are given both the housing allowance and special allowance as 10% and 15% of their BASIC SALARY respectively, where as the employees, who are Temporary (Job status  $\rightarrow$ T), are given only Dearness Allowance as facility and that of 20% of their BASIC SALARY.
- 3. Calculate Gross (Gross salary) as sum of (BASIC SALARY, HOUSING ALLOWANCE & special ALLOWANCE).
- 4. Calculate P.F. (Provident Fund) as 10% of BASIC SALARY only for the Permanent staffs.
- 5. Calculate TAX amount following the given hint:
  - (a) If the staff is Permanently appointed and drawing GROSS SALARY >= 40000, TAX amount = 10% of the GROSS
  - (b) If the staff is Permanent and drawing GROSS SALARY < 40000 but more than or 20000, Tax amount = 5% of the GROSS.
  - (c) If the staff is Permanent and drawing GROSS SALARY < 20000, TAX AMOUNT=0
  - (d) If the staff is Temporary and receiving GROSS SALARY >=50000, TAX amount=15% of the GROSS.
  - (e) If the staff is Temporary and receiving GROSS SALARY < 50000 but more than equal to 25000, TAX amount=6% of the GROSS otherwise no tax.
- 6. Calculate NET (Net salary) as (GROSS P.F. TAX)
- 7. Calculate the Grand total of TAX amount, P.F. amount and Net amount. Similarly, also find out the maximum, minimum value in Tax amount, P.F. amount and Net amount just below the grand total with the label specification.
- 8. Format the entire amount with thousand separator.
- 9. Sort the data on the basis of DEPARTMENT in ascending order.
- 10. Filter out all the permanent employees' records belonged to the DEPARTMENT "Administration" somewhere in the current worksheet.
- 11. Prepare a pie-chart to analyze the NET SALARY received by each of the permanent employees of Administration Department on the basis of the filtered records.

#### Problems based on what-if analysis:

1. Calculate the interest and amount for the principle Rs. 500000 invested for 2 years time at the rate of interest 7.5% per year.

Also analyse the interest and amount for the same principle and time period by varying the rate of interest as follows:

- 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5. 11, 11.5, 12 so on
- 2. Analyse the amount for the principle Rs 600000 by varying the time period and rate of interest for the investment as follows:

Time period in year: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Rate of interest in % per yr: 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5. 11, 11.5, 12