	Subject:			Software :	
				Hardware :	
	Branch:	Semeste	r:	Page No.75	Prog No OT
PROBLEM STATEME	NT Introduction to PLISAL	4P1/	SAL Storied Po	randuras ar	d few chims
ALGORITHM & CODE	What is PL 150L	?			1111111
	PLISAL (Proces	edurcal	language	Structure	ed Querry
	language) is a Pr	roco di	crowd anteno	sion of se	lL
	developed by acac	ue o	corporation.	It is used	a to
	that run inside	Str	riphe D.	12	triggers
	PL/Sac combines S	ial w	th pracedu	rial featur	ruos Lika
	loops, conditions,	and 6	enception 1	nandline	makika it
	a powereful and efficient	wont	Prid 9 Izamm	los longue	0
	databasa operation	no.	, Januar	angue	gue forc
	feature of PL/Sa				
	1. Block - Structuce arce corriter in bo	rced locks	language for bet	- PL/SQL	Programs sility and
	a Procedural Amilia	I100 .			
	2. Procedural Oapabili	11-6	Supports do	ps, condit	tional
	Statemens (IF, MASE)	and a	incopillion h	andli 4.	1911919
	3. Supports Sal: 1 Statements within	you co	an directly	enecute	d sal
	Statements within "	PL/SQ	L,		
		4-10			FASTER B
INPUT GIVEN					
OUTPUT OBTAINED					
REMARKS					100
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	Part I	-				
S Summer	Subject:		Software:			
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	Branch:	Semester	:	Page No. 76	Prog No. 07	
PROBLEM STATEMENT						
ALGORITHM & CODE :	4. High Performance	- Red	uces net	soul tradi	c and	
	improves performa	incie j	M OWO THAN	الما المارية	e multiple	
	Sal Stoutements at	improves performance by enecuting multiple multiple Sal startements at onco.				
	5. fracore Handling			-10M P100	hs to	
	6. Partability - R			stem that	Supportes	
	Ocalle Dotabo	use .				
	7. Security- offe	ns se	curity thr	weigh ?	rivi leges	
	and stored porce	modur	ies.	J		
	PL/SAL Block	Struce	turies			
	A PLISAL Pocogn	com o	onsists of	Pour Sox	Aions:	
	1. Declaration Sec	ction	(Optioned)			
	varciables, constan	ts, c	eurosorra, i	and User	- defined	
	2. Enecution Social	on (mo	indopourl)		7,376	
	The main logic, inc conditional stateme	luding :	SQL Statem	ents, loop	s, and	
	Conditional Stateme	ints.	A I	\	63743	
	3. Enception Handling	Section	, (optional)		
	Handles errores (like division by zero, no data found, etc.).					
INPUT GIVEN						
OUTPUT OBTAINED						
REMARKS						
GRADE:	Signature of Faculty Date:		Signature of Stud	lent		

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			Hardware :			
THE TANK	Branch:	Semester :	Page No. 77	Prog No. 07		
LEM STATEMENT						
)RITHM & CODE	Evercy PL/SQL block ends with END; Basic PL/SQL Block Enample					
	DECLARE message VARCHI	AR2(60);				
	BEGIN message:= 'He DBMS_DUTPUT	110, PL [SQL!;; T. PUT_LING (ma	₂₈ 50ge);			
	END;					
	PLISAL Control St	rcuctures	01 -	and the same		
	PLISQL Supports (Conditional and its	ercative State	anexy 3 ,		
	Conditional Statement	S				
	IF - THEN-ELSE					
	DECLARE num NUMBER:	= 10;				
	BEGIN IF num > 0 THEN DBMS_OUTPUT. PUT_LINE ('Positive Number');					
INPUT GIV	/EN					
OUTPUT OF	BTAINED					
REMARK		Qianatura a	f Student			
GRADE:	Signature of Faculty Date:	Signature of Date:	I Student			

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			Hardware:
	Branch:	Semester:	Page No. 78 Prog No. 07
PROBLEM STATE			
ALGORITHM & C	DBMS-OUTPU FND IF; END; CASE Statement DECLARGE Greade CHAR BEGIN CASE greade WHEN 'A' T WHEN 'B' = FLSE DBM FND CASE; END; LOOPS & PLISAL FOR LOOP BEGIN FOR IN 1.5 L	HEN DAMS-OUTPUT THEN DBMS-OUTPUT S-OUTPUT, PUT_LINE	PUT_LINE ('Encellent'); PUT_LINE ('Good'); ('Needs Improvement');
INPUT GIVEN			
OUTPUT OBTAINED			
REMARKS	Objective of Esculty	Signature of	Student
IGRADE :	Signature of Faculty Date:	Date :	-1

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			Software:			
The state of the s				Hardware :		
	Branch:	Semeste	r			
PROBLEM STATEMEN				Page No. 79	Prog No. 67	
ALGORITHM & CODE	ENDLOOP;					
	END;					
	WHILE LOOP					
	PECLARE					
	num Number := 1	L:				
	BEGIN					
	WHILE num <= 5 L	-00P				
	DBMS - OUTPUT.	PUT_1	INE ('Namb	ere: 'Il num'	);	
	num := num + 1;					
	END LOOP;					
	END;					
	/					
	PLISQL Enception Ho	andling				
	PLISAL Provider a	wery	to handle en	arcores USi	ng the	
	EXCEPTION block.					
	Enample of Enception	n Ha	alling:			
	DECLARE					
	num NUMBER: = 1					
	denom Number:	= 0;				
	result Number,	;				
IPUT GIVEN						
JTPUT OBTAINED						
EMARKS						
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- som	Subject:					
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	Branch:	Semeste	r:	Page No. 80	Prog No 57	
PROBLEM STATEMEN				90 1101 00	1 log No. O f	
ALGORITHM & CODE	- FOIIN					
	result:= num/d	denom	; - Divisio	n by Zerco	Grancer	
	FXCEPTION					
	WHEN ZERO-DINIDE THEN					
	DBMS - OUTPUT. PUT_LINE l'frercorz: Connot divide					
	"y Zerco");					
	END;					
	PLISAL Storced Pro	cedura	es of functi	ens		
	FUNCTION:		0 1	- 0 +0	ا میلطد ۵ ۵	
	A function is a	Subpr	cogream that	conque	s a vame.	
	Syntan:		^			
	CREATE [OR REPLACE]	PUNCT	101 function	on-norme (F	arameter	
	list) RETURN motum					
	15 / As		1			
	Varciable declara	ations	(optional)			
	<b>E</b> GIN	H				
	PL/SQL Statement	43				
	RFTURN return- value	w;				
	EXCEPTION					
	Enception handling	Copti	enal)			
PUT GIVEN						
TPUT OBTAINED						
MARKS						
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			Hardware :				
THE TANK	Branch:	Semester:	Page No. 8	Prog No. 07			
OBLEM STATEMENT			1 ago 110. 8	Flog No. 07			
GORITHM & CODE	rolling enception - name THEN						
	enception handling	- Enception handling statements					
	FND function-normal	<i>0</i>					
	Components						
	1. CREATE [OR REPI						
	· CREATE: Specifies that you are creating a new function.						
	· OR REPLACE: Optional. If the function already						
	enists, this clause allows you to replace if with						
	a new definition.						
	· function-name: The name of the function.						
	2. (Parzameter - list):						
	· A comma - Separcated list of parcameters.						
	· fach the semanting how a name and						
	Lata type Paragrapheres can be IN, UUI or IN OUT.						
	· Emanyle: (P- Params IN Number, P-Param2 OUT						
	VARCHAR2)						
T GIVEN							
UT OBTAINED							
ARKS			ALL MARK				
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	Date:	Date :	1				

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	, , ,		Software:			
THE THE	Branch:	Semester:	Page No. 82 Prog No. 07			
PROBLEM STATEMENT						
ALGORITHM & CODE :	B. RETURN FLETCHEN-	type:				
	· Specifics +	the function will recture.				
		ETURN NUMBER, R	ETURN VARCHAR2			
	4. Is on As:					
	Both keywords car	beginning of the	rchangeably.			
	5. Variable Declar • Local Narcial needed.	tations (optional): des can be dec	hoursed here if			
	6. BEGIN END; o The enecul	: table Parct of t	we function where			
	the main logic is	written.	and considered			
	o The RETURN	restaran Value;	Statement specifies			
	the value that	WIII LE TOPICION	ar pyroc paracon			
	7. Enception:		on continue of			
	o Optional Sect	ion to handle e	emcephon's el-			
	ercrores that oc 8. FND function_rame	cure during em	e Cuaren.			
		, .	Specifies the Runction			
INPUT GIVEN						
OUTPUT OBTAINED						
REMARKS						
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The same of	Branch:	Compater					
ROBLEM STATEMENT		Semester		Page No. 83	Prog No. 07		
ALGORITHM & CODE :	rame again.						
	Enample						
	1. Write a PL/SQI	L Pricogn	cam to imp	lement at	unction		
1227	that calculates the	Squar	e of a nu	umber :	FEW COL		
11 3 17 0 3	CREATE OR REPLACE	PUNCTIO	IN Squarre	number (P	num IN		
	NUMBER ? RETURN	Nong	SER '				
	V. rues wit Number	,			- Frank		
	BEGIN						
	V. regult ! = P_num	* P_ ne	um;				
	RETURN V-result;						
	END Square-numb	ven;					
	SELFCT square _nu		s) As Squar	re from o	tual;		
	2. Write a Program	to ou	ed two nu	mbers ust	ng function.		
	CREATE OR REPLACE		TION Add N	umborg (			
	P_num1 IN NUM						
	P_num2 IN N						
	) RETURN NUMBER	_					
	AS						
	BEGIN RETURN P. num1 + END:	P-nun	12:				
NPUT GIVEN	END;						
UTPUT OBTAINED							
EMARKS							
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RADE:	Date:		Date :	ent s	The state of the s		
		The state of the s		1	And the second second second second		

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THE THE THE	Branch:	Semester :		Dave No. 4	
PROBLEM STATEMENT		oemester.		Page No. 94	Prog No. 07
ALGORITHM & CODE:	SELFCT Add Numbers (5,10) As Sum FROM dual;  3. Write a Priogram to find manimum numbers setween two numbers using function.  PEATE OR REPLACE FUNCTION manihumbers (  P-num1 IN NUMBER  P-num2 IN NUMBER				
	RETURN NUMBER  AS BEGIN  IF P. roum1 > P. num2 THEN  RETURN P. num1;  FESE  RETURN P. num2;  END IF;  END;  SELECT Man Number (5, 10) As Man Value FROM dual;  This Will return 10 as the rescult.  U. Write a Program to calculate the factorial of a number using function.  CREATE OR REPLACE FUNCTION Factorial ( P. num IN NUMBER				
INPUT GIVEN					
OUTPUT OBTAINED					
REMARKS					
GRADE:	Signature of Faculty  Date:		Signature of Stu-	dent	

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The state of the s	Branch :	Semester :		Page No. 85	Prog No.57	
ROBLEM STATEMENT				• 6	3,101	
	PRETURN NUMBER BEGIN  IF P-num = 0  RETURN P-NU  FLSF  RETURN P-NU  FNO IF;  SELECT Factorial IS  PROCEDURF  IN PL/SQL, a Propositions a specific value. Proceedures of SQL Stortement of SQL	THEN  In * Factoria  As factore  accedence is a  ic task but  as on PL 150  s modifying a  ntrolling the	dol-Res dole vsed L co. louta, Plow	sult from springerium s not recent to emecut de that r smanagir of ence	that theren a the a set periforems ney which.	
IPUT GIVEN						
UTPUT OBTAINED						
EMARKS						
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PROBLEM STATEMENT	THE RESERVE OF THE PARTY OF THE			35.1101 86	1 10g No.04
INPLIT GIVEN	BEGIN  PL (SIGL State EXCEPTION  Enception has WHEN enception has WHEN enception has END procedure - now Components  1. CREATE FOR RE  CREATE India REOCEDURE  OR REPLACE: entists, this Clows new de finition.  Officedure  Recocedure  Recocedure  A. (Parcametore-list  of comma-se  Each Parcam mode (IN, DUT, 1)	ments  ralling (  name dling 6  me;  PLACE To coutes to optional e ollow  -name ): equivous or IN Oli Parami	optional) THEN totements  ROCFDURF hat you ar , if the ri is you to the ! The nan ! Ust of " was a nau IT)."	Procedure it me of the	ng a new already with a Preocedure.
INPUT GIVEN					
OUTPUT OBTAINED					
REMARKS					
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	Branch:	Semester:		Page No. 87	Prog No. of	
PROBLEM STATEMENT				r ago no. 8 1	110g No. 64	
ALGORITHM & CODE:	Value from the OUT: The Procedure of the Marcia Secretaria the main of Exceptional de ercretare their och of END; entre enecutions of the main of the enecutors of their och och of their och	Procedure.  The Parame :  Lable Parame :  Lable Parame :  Chien to	meters  of the de loption be de loption handle long estimates the long	is used he proced here.	fore both dure body, d.	
	· Ends the Procedure definition and Specifies the Procedure name again.					
INPUT GIVEN						
OUTPUT OBTAINED						
REMARKS						
GRADE:	Signature of Faculty  Date:	Signa Date :	ture of Stud	ent		

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STATE OF THE PARTY				Software:		
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-	Branch:	Semester :		Page No. 8%	Prog No. 07	
PROBLEM STATEMENT						
ALGORITHM & CODE	CREATES OR RI CREATES OR RI CP- neum IN NOW OFGIN IF P-neum I  DBMS-DUT ELSEIF MOD  'is oven.'); ELSE	PLACE PR PDER) AS S NULL PUT-PUT- (P-num,2) TPUT. PUT UTPUT. PUT PTPUT. PUT	THEN LINE ('TM - LINE ('TM - LINE ('TM	check Odd, e number he number he number	Stelven I's NULL'); i'     P_num   '    P_num	
	Output: The num	Output: The number is Old.				
INPUT GIVEN				The Landson		
OUTPUT OBTAI	INED					
REMARKS						
GRADE:	Signature of Faculty  Date:		Signature of Sta	udent		

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				Hardware :			
	Branch:	Semester :		Page No. 89	Prog No 27		
ROBLEM STATEMENT				rage no. 8	Flog No. O t		
ALGORITHM & CODE:	2) Create a Brach To la library						
	2) Create a Procedure to display 1-10 using While loop CREATE OR REPLACE PROCEDURE Display Numbers AS						
	V-new NUMBER:	= 1:	Initializa	o No-impo	to storce		
	the courrent numb	wr	Influence	d 1011 (1010)			
	<b>EGIN</b>						
	WHILE V-now ( =	= 10					
	LOOP						
	DBMS. OUTPO	ot. pur.	- LINE N-	num); 0	utput the		
	Current number Eto						
	V. num: = V_num + 1; Increement the number END LOOP; END;						
	How to enecute t	the Parco	cedure, y	ou con us	e the		
	Following Command: PSFGIN						
	Disphynumbers	3,					
	END						
Naur ou mi							
INPUT GIVEN							
OUTPUT OBTAINED REMARKS							
TEINARRO	Signature of Faculty		Signature of Stud	dent			
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				Hardware ;	
Company of the Compan	Branch:	Semester:		Page No. 90	Prog No. 07
PROBLEM STATEMENT					
ALGORITHM & CODE	THE RECORDS to a  First, you create  TABLE Statement:  CREATE TABLE Employees D NUM  First Name Vi  Last Name Vi  HirceDate D  );  Newt, you create	CREATE TABLE Employees ( Employee ID NUMBER (5) PRIMARY KEY,  Firest Name VARCHAR 2 (50),  Last Name VARCHAR 2 (50),  HirceDate DATE			
	REATE OR REPLACE P. Employees In P. Arcsanlame P. Last Name P. HiraDate  AS  BEGIN	Employe PROCE IN NO IN VARCH IN VARCH	es table. DURE In MBER, ARZ,	•	
INPUT GIVE	N				
OUTPUT OBT	AINED				
REMARKS			Signature of Stu	ident	
GRADE:	Signature of Faculty  Date:		Date :	1	

	Subject:		Software :			
					Branch:	Semester :
	PROBLEM STATEMENT				FAMILIE	
ALGORITHM & CODE:	INSTRY INTO Employees (EmployeeD, FirestName, lastName, HiraDute)					
	VALUES (P- EmployeeID, P. FirstName, P- LastName, P-HiraDur					
	CommyT; commit the transaction FND;					
	Conecute the Procedure					
	BEGIN  Meeret Employeee (  P- Employeee ()  P- HirestName => 'John',  P- lastName => 'Doo',  P- Hirestelle => TO-DATE ('ADAY - 07-21',  'YYYY-MN-OO')  );  END;					
INPUT GIVEN			3. 1. 1. 1. 1.			
OUTPUT OBTAINED						
REMARKS						
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