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# Rana Abubakar Khan

If you want to learn computer programming then contact with me

[truefriendlion@gmail.com](mailto:truefriendlion@gmail.com)

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CS508 MID TERM PAPER SHARED BY STUDENT

ON JUNE 29, 2018 AT 1:11PM

Today's paper was very tough

no mcq from past papers

why fortran60 was not widely used? 5 marks

language used for Artificial intelligence ? 3 marks

Snobol se zyada paper aya tha.

CS508 MID TERM PAPER SHARED BY STUDENT

ON DECEMBER 27, 2018 AT 10:19AM

My Paper today at 8:30

Total MCQs=18 (17 from Past papers and 1 was new)

Total Subjective = 5 (3+3+5+5+5)

Define a record of Cat aour us k attributes diay huay thy (5 M)



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If Zuse's Plankalkül Language was introduced earlier which 2 languages we may not see? And why? (5)

Answer

FORTRAN & COBOL

Code was given in SNOBOL j's main size function so resultant string aour us ka size batana tha (5)

Language which do not supply array bound checking at compile time. And what will be the problem

Answer

I think java provides it. Problem will be at run time and an exception will occur

Three Math Functions in LISP (3 M)

Answer

Sin, Cos, Tan, Exp

Objective k file attach hy all in 1 past papers and quizzes

CS508 MID TERM PAPER SHARED BY STUDENT

ON DECEMBER 17, 2016 AT 12:10PM

Here I am going to share my cs508 paper which was held on 17 december 2016 The questions in cs508 current paper was like:

1. Which language had a strong influence on one of the high level system programming language like C?
2. What is the role of Atoms in LISP?
3. Which of the languages first provided a structured exception handling mechanism among Ada and C++?
4. Considering 'Generalization' as an important factor that helps to manage complexity of any programming language. Briefly mention how could generality be considered as an important language evaluation criteria?



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5. Explain the concept of dangling else with an example. And also explain the solution to this problem. 6. Suppose you have to write a program in Ada Language for calculating marks of a student for 3 subjects. The total marks for each subject is as follow: Subject1= 100 Subject2= 200 Subject2= 400 How will you restrict users to not enter values less than 0 and greater than total marks? Also write code snippet for this.

Note: The use of loops and conditions are not allowed.

CS508 MID TERM PAPER SHARED BY STUDENT

ON DECEMBER 17, 2016 AT 1:10PM

1. Why COBOL was encountered at the start with problems? 2 marks.
2. From the following code snippet in Ada execute which statement if "A" contains "12". 2 marks.  
Case "A" is  
When 1 => fly  
When 11| 14 => null;  
When 22|20..30=> ;  
When others=>complain;  
End case;
3. Code given tha us ka output btana tha Lisp mein tha code. 3 marks.
4. In SnoBol4 create a table of unspecified length. 3 marks.
5. In transition C++ in Java what data structures are eliminated. Also give the reasons of elimination of data structure of C++ in Java. 5 marks.
5. In Ada how is different 5 marks.  
I) C expression symbolic literals.  
II) C++ operator overloading.

CS508 MID TERM PAPER SHARED BY STUDENT

CURRENT PAPER CS508 17/12/2016

1. Write two data type use in SNOBOL.
2. Why we say expansion handling mechanism of Ada good then other language.
3. Type BIG is mod 8;  
big1: BIG:=3; any error in Ada code
4. Write three aspect of Readability.
5. Why we not write > (squire x) in lips. Write any way to assign value to x.
6. Why Readability preferred over writability when conflicting satiation occur. Explain



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CS508 MID TERM PAPER SHARED BY STUDENT

MY TODAY PAPER OF CS508 (19/12/2016)

Question # (01):

Explain the term Writability as a measure of supports for abstraction with example?

Question # (02):

Find the length of the LIST L' (D E F G I) by using List manipulation function?

Question # (03):

In which a program will crash, in run time checking or compile time checking? And briefly explain program reason?

Question # (04):

Write the name of operators which are available in Ada but not in C/C++?

Question # (05):

Convert the following facts into Prolog facts

Fred Eats Orange

Dolphin Is A Mammal

John Likes Merry

Sana Sing Song

Azmat Cooks Food

Question # (06):

A XYZ school requires a scientific system, The system will be responsible for delivering full understanding of the subjects to students by implementing all the mathematical rules and formulae e.g. Solving differential equation, evaluating integrals etc, Being a programmer identify the language which is most suitable for the design of this system, Also explain the reason for selection

CS508 MID TERM PAPER SHARED BY STUDENT

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2. Dolphin Is A Mammal
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4. Sana Sing Song
5. Azmat Cooks Food

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CS508 MID TERM PAPER SHARED BY STUDENT

ON DECEMBER 23, 2016 AT 10:06AM

1. Identify the precedence among Space and Arithmetic Operator.
2. Why Prefer Ada in exception Handling Mechanism over other languages?
3. Name any three descendents of C.
4. How many elements are in (a (de))?
5. Which operator can't be overridden in Ada, Explain.
6. Which is more orthogonal from the given 2 sets
  - a. A Reg1, memory\_cell



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AR Reg1, Reg2

b. ADD operand1, operand 2

CS508 MID TERM PAPER SHARED BY STUDENT

ON DECEMBER 20, 2015 AT 9:35PM

1. what is the functionality of KEYWORD INT|CAHR IN snobol4 2
  - 2.what is error in it >(sqrt x) in LISP 3
  3. how many element in it (a (d e)) related to lisp 2
- what is predicate in snobol ya lisp ma language conform ni ha 3  
what is valid or invalid statment in ADA language 5  
a=(1....5) integer  
b=(1....5) integer  
c,d=(1....5) float  
condition  
a=b  
a=c  
b=a

CS508 MID TERM PAPER SHARED BY STUDENT

ON DECEMBER 20, 2015 AT 10:11PM

- 1) Which statement is true about SNOBOL?  
Its developers are computer experts  
Its developers have limited introduction with computer science  
Is an example of aspect programming languages.  
Have many data types
- 2)We may create our own exceptions in \_\_\_\_\_.  
C  
SNOBOL  
C++  
Ada
- 3) The first argument in LISP list is the \_\_\_\_\_.  
list  
function



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argument  
atom

CS508 MID TERM PAPER SHARED BY STUDENT

ON DECEMBER 28, 2015 AT 6:39PM

1-Name the famous two version of LISP programming:

Ans: 1) Schema 2) Common Lisp

2-Create a list in LISP of elements ABC and insert an element z.

3-Answer with yes or no: (Prolog) Facts and rules were given.

4- Pattern Matching and string concatenation (Space). (SNOBOL)

CS508 MID TERM PAPER SHARED BY STUDENT

ON DECEMBER 29, 2015 AT 10:13AM

Current paper

Why Ada does not use += and -= type of operators?

**Question No:**

Pattern matching is a powerful tool for syntax analysis in **SNOBOL**. Consider the following piece of code and identify if the pattern matching comes out to be success or failure justify your answer in either case.





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FIRST = 'SUMMER'

SECOND = 'SUM'

FIRST SECOND

Question

Write a function in LISP that return the difference of the two lists L3 and L4.

Suppose you want to remove a certain property attribute named '**WEIGHT**' from the following list symbols in LISP:

>(symbol-plist 'a)

(**WEIGHT 20 HEIGHT 8**)

Which function will be used for this purpose give proper example to explain your answer?

Why Ada is considered to be a strongly typed language? Briefly explain.

CS508 MID TERM PAPER SHARED BY STUDENT

ON DECEMBER 29, 2015 AT 4:10PM

Today is my papers.

1. Difference the car,cdr first and rest LISP function;
2. How many types of function are supported in SNOBOL 4?
3. Write the name of the operator which are avoidable in Ada but not in C/C++?
4. Write the small program in Ada print the BS-computer-sciences.?





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5. Identify the list selector function used in LISP?

CS508 MID TERM PAPER SHARED BY STUDENT

ON JUNE 21, 2015 AT 6:39AM

My yesterday paper

MCQS mostly are new one

write two point that differentiate the LISP language from other language. 2

Why we need single language Ada. 2

Set the value of variable a HEIGHT =12 and Weight=5. 3

What is difference b/w these two statements >(set-intersection L1 L2) and >(set-difference L1 L2) 5

aik question ADA main sy that bhol gya hon

CS508 MID TERM PAPER SHARED BY STUDENT

MY TODAY PAPER 21 JUNE 2015 12:30 PM

mcq were new from handouts 2 3 from past , 3 subjective Q were from past papers.

Q no 1 write the simple Ada program whether a number is event or not?

Q no 2 which data structre is more widely use in LISP pogramming.?

Qno 3 write the ada program of given arguments Use for loop and use Put() method execpt PUt\_Line() and write NEW\_Line for new line the arguments are given below

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Q no 4 Set the value of variable a HEIGHT =12 and Weight=5.

Q no 5 dotime dolist men sy function tha koi ,

Q no 6 when Put\_Line method is called in Ada does need to call New\_Line method or not?

FORTTRAN men sy mcq thy , Lisp men sy thy , ada men sy thy sonobol men sy thy , First program jis ny error door kiye kon sa tha ,readabilty men sy thy , lisp k function kon kon sy hn , etc



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best of luck

CS508 MID TERM PAPER SHARED BY STUDENT

ON JANUARY 16, 2015 AT 12:45PM

My todays paper

MCQs handouts ma say thay or aik baar sab handouts completely read karlain. Old solved papers ma say kuch b ni aya.

MCQS were mostly of Ada langauage.

Aik program aya tha LISP ka jis ma HEIGHT keyword ko remove karna tha 5marks

New programmin language kee zarorat kab mehsoos hoi I guess SNOBOL ka pocha gya tha ALGOL k muqablay ma or scientists ka b pocha tha... 5marks

C++ k data structure or Ada k Generics ka farq 3marks

baaqi bhol gya, paper asaan tha.

CS508 MID TERM PAPER SHARED BY STUDENT

ON JANUARY 18, 2015 AT 3:29PM

My today's papr.

Total 26 questionz, 20 mcqs n 6 subjectiv,

**There were no any MCQ or subjectiv frm Past papers.**

**All were new n conceptual.**

some questionz which i remember r;

1; which predicate function wll hlp for testing atoms?

2; Arrays in SNOBOL?



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3; concatenation n patern matchng in SNOBOL?

4; what is Traggerz in Ada?

**Gud lck n plz pray fr my Father's health.**

**jzakAllah,**

CS508 MID TERM PAPER SHARED BY STUDENT

MIDTERM\_PAPER\_SPRING\_2014

**Question 1 (2 marks)**

Whether polymorphism is allowed in Ada or not? Briefly state.

**Question 2 (2 Marks)**

How Bitwise Exclusive Or, and Not is represented in Ada?

**Question 3 (3 Marks)**

Identify Local and Global variable

`>(defun y-plus(x)(+x y))`

**Question 4 (3 Marks)**

Why Ada does not use '=' operator for assignment like other language?

**Question 5 (5 marks)**

Briefly explain how LISP evaluates symbolic expression.

**Question 6 (5 marks)**

Program in Ada was given and we have to write its output.



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#### CS508 MID TERM PAPER SHARED BY STUDENT

ON JUNE 14, 2014 AT 10:22PM

my cs508 paper, mcq's were easy but concept based, most paper was from ADA and LISP,

1. code checking output of simple ADA program. 2marks
2. ADA case statements in ADA
3. write array in ADA using Days of a week as indexes, just like example given on page: 51
4. what is the role of atom in LISP.
5. code written in ADA (procedure), we had to tell the output. 5marks
6. some statements were given, we had to define prolog facts about them 5marks

#### CS508 MID TERM PAPER SHARED BY STUDENT

ON DECEMBER 20, 2013 AT 5:57PM

Today Paper

Total Questions = 26

Total Marks = 40

Total MCQs of 1 Mark = 20

Short Subjective Question of 2 Marks = 2

Subjective Question of 3 Marks = 2

Subjective Questions of 5 Marks = 2

1. what is the functionality of KEYWORD INT|CAHR IN snobol4 2
  2. what is error in it  $>(\text{sqrt } x)$  in LISP 3
  3. how many element in it (a (d e)) related to lisp 2
- what is predicate in snobol ya lisp ma language conform ni ha 3
- what is valid or invalid statement in ADA language 5
- a=(1....5) integer  
b=(1....5) integer  
c,d=(1....5) float  
condition  
a=b  
a=c  
b=a



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CS508 MID TERM PAPER SHARED BY STUDENT

ON MAY 28, 2013 AT 2:09PM

mcqs are mostly from past papers

1. write two comparative operator used as function for numerical values in lisp programming language ? 2 marks

2. cas A is

when 1 => fly;

when 11|14 => null;

when 22|20.....30 => swim;

when others => complain ;

end case;

what will be executed if A condition is 12. .... 2 marks

3. which data structure map pairs of associated data object in snobol? 3 marks its answer is TABLE data structure

4. which language first provided exception handling among c++ , ada? .... 3 marks

5. write a complete program in ada to print this out put by only using put\_line command. use the loop isn't allowed.

print this code

\*

\*\*\*

\*\*\*\*\*



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\*\*\*\*\*

(this star sign we gonna print . m telling this bcz may be people got confuse that it might be some other code )

6. write program in ada using loop to print this code

code :

\*

\*\*

\*\*\*

\*\*\*\*

\*\*\*\*\* (these star have to print using loop)

CS508 MID TERM PAPER SHARED BY STUDENT

ON MAY 30, 2013 AT 2:40PM

have u done ur paper..?

here's another shared paper.

multiple choice was mostly from ada

1: does ada beleive in human programming if yes then y?

2: c or ada, which support subprograms?

3: concepts of car, cdr, first and rest in Lisp?

4: the quesion was from lisp to add or subtract two numbers?

4: the program was given you have to show its output? the program was from ada procedures?



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CS508 MID TERM PAPER SHARED BY STUDENT

ON MAY 11, 2012 AT 5:10PM

2 questions of 5 marks

1. write code in LISP to compute power of x to y page 76

2. Write maps data types in SNOBOL.

3 marks questions

write IO header file for Ada..

name functions that are used in List construction

2 marks questions

What are operators for Logical AND && and Logical OR || used in ADA.

features added in COBOL not included in SNOBOL.

for MCQs you need to read the book some are from old papers too but for good marks reading is must.

Remember me in your Prayers

CS508 MID TERM PAPER SHARED BY STUDENT

ON NOVEMBER 29, 2011 AT 12:14AM

16 mcqs

3 qs 2 marks

3 qs 2 marks

2 qs 5 marks

1) S=0

S=o

-- N=LT(N,13)N+1:F(DONE)

SUM=SUM+\_N:(ADD)

DONE OUTPUT=SUM





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- 2) SYNTACTICALLY SHOW HOW CAN WE DEFINE THE LISP?
- 3) DIFFERENTIATE BETWEEN THE data record type and C/C++??
- 4) define struct with the proper example
- 5) element of lisp
- 6) is polymorphism allowed in ADA????
- 7) orthogonality???
- 8) algo main feature???

CS508 MID TERM PAPER SHARED BY STUDENT

ON NOVEMBER 30, 2011 AT 8:34PM

**why parallel programming is used in ADA? (3) marks**  
**Babbage's Analytical Engine (2)**  
**Orthogonality and its role (5)**  
**why ADA is statically structured language? (3)**  
**or aik yaad nhi aa rha**  
**abhi**  
**code dono snobol k thay**

CS508 2013

- 1) write three concepts which are introduced in LISP for the first time
- 2) ADA is a strongly typed language describe how?
- 3) write a function in LISP to concatenate two lists List a=(3 4 5) List b=(c d 6)
- 4) type big is mod 8  
big :Big :=3; this code will generate an error in ADA ?
- 5) In C++ ^ and ~ are used for bitwise exclusive OR and bitwise NOT write their equivalent in ADA

2 questions of marks 2, 3 and 5

20 MCQS

Total: 40 Marks



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Dear fellows, the most easiest paper ever. But i lack things because i didn't pay proper attention. I found this course Great, Lecture Handouts are helpful, even Video lectures delivered are also good. I missed but In Shaa Allah I will and I hope every student of this course can score good marks easily. What you need to do is pay bit attention but it will give more good grades then other courses.

Thanks,

Marks5:

1. Write Output of the code following code.

Procedure Color is

Color= BasicColor(Red, green, blue, yellow)

begin BasicColor

Color:=BasicColor'PRED(RED)

end color

(It is not exact but code was like this. i am not good at ADA, have been forgot)

2. What code in LISP language used to computer power of x to y. [page 76]

Marks3:

1. Give any three major concept which introduced in LISP language for first time.

2. A code was given about ADA case concept. Please refer topic "Case statement" [Page 58]

Marks2:

1. How to type comment in PROLOG language.

2. How can we determing the size of Array in SNOBOL



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MCQS all are easy. conceptual and mind storming based. student should listen lecture and read handouts. History questions and differences in between languages should conceptually build up in mind otherwise you would not score good grades.

few MCQS get from past papers were also in my paper

1. Elementary types are also called \_\_\_\_\_ in ADA.
2. \_\_\_\_ has a powerful set of operators but poor type checking
3. 1st machine independent language is \_\_\_\_\_

Rest of other are all easy.

Midterm nov 2011

16 mcqs

3 qs 2 marks

3 qs 2 marks

2 qs 5 marks

1) S=0

S=0

-- N=LT(N,13)N+1:F(DONE)

SUM=SUM+\_N:(ADD)

DONE OUTPUT=SUM

2) SYNTACTICALLY SHOW HOW CAN WE DEFINE THE LISP?

3) DIFFERENTIATE BETWEEN THE data record type and C/C++??

4) define struct with the proper example

5) element of lisp

6) is polymorphism allowed in ADA????

7) orthogonality???

8) algo main feature???

**why parallel programming is used in ADA? (3) marks**

**Babbage's Analytical Engine (2)**

**Orthogonality and its role (5)**

**why ADA is statically structured language? (3)**

or aik yaad nhi aa rha

abhi

code dono snobol k thay



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1-12-2010 CS508 MID TERM PAPER TOTAL 40 MARKS, 20 MCQ, 2Q 2 MARKS, 2 Q 3MARKS, 2Q 5 MARKS

WHAT IS THE DIFFERENCE BETWEEN  $\cap$  (INTERSECTION  $L_1, L_2$ ) AND  $\setminus$  (SET-DIFFERENCE  $L_1, L_2$ ) LISP FUNCTIONS. 5

GIVE SILENT FEATURES OF PACKAGES IN ADA 5

CREATING LIST FUNCTIONS IN LISP MAY BE WRITTEN AS (APPEND '(AB)'(CD)) SO WHY WE USE THE SINGLE QUOTE (') IN FRONT OF ATOM OR LIST. 3

WHAT IS BATTING-AVERAGE IN ADA EXPLAIN WITH SUITABLE EXAMPLE. 3

WRITE AN PATTERN MATCHING STATEMENT IN SNOBOL. 2

WHAT ARE THE ADDITIONAL FEATURES ADDED IN COBOL LANGUAGE. 2

**CS508 – MODERN PROGRAMMING LANGUAGES – MIDTERM PAPER 2010**

Spring – Session 2

[www.vuzs.net](http://www.vuzs.net)

**CS508 - Modern Programming Languages - Q. No. 1 M - 5**

Compare ADA dor loop with dolist and dotime in LISP

**CS508 - Modern Programming Languages - Q. No. 2 M - 5**

Differentiate between ADA access types and C/C++ pointer type

**CS508 - Modern Programming Languages - Q. No. 3 M - 3**

Why predicate is a special function in LISP

<http://www.vuzs.net/study-portals/mcs-study-portal.html>

**CS508 - Modern Programming Languages - Q. No. 4 M - 3**



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Differentiate between C/C++ unions and ADA discriminated type (3)

**CS508 - Modern Programming Languages - Q. No. 5 M - 2**

What additional features are added in COBOL

**CS508 - Modern Programming Languages - Q. No. 6 M - 2**

Is there anything like templates as in C++

**CS508 - Modern Programming Languages - Q. No. 7**

1. Anything starting with Capital or underscore is a variable in \_\_\_\_\_ (Prolog, Lisp, Cobol)
2. In Prolog we specify \_\_\_\_\_ and not \_\_\_\_\_ (solution, problem)
3. LISP is used in \_\_\_\_\_ and \_\_\_\_\_ (functional paradigm, AI)
4. First arguments in LISP is \_\_\_\_\_ (Atom, argument, integer, LIST)
5. ADA has \_\_\_\_\_ do while loop as C/C++ (NO, effective, similar)
6. Maps in SNOBOL are also available in \_\_\_\_\_ (C, C++, MATLAB, Prolog)
7. We use \_\_\_\_\_ indirect referencing operator in SNOBOL (Binary ".", Binary \$, Unary ".", Unary \$)
8. Elementary types are also called \_\_\_\_\_ in ADA (Static, user defines, builtin)
9. ADA is a \_\_\_\_\_ typed language (strongly)
10. <http://www.vuzs.net/study-portals/mcs-study-portal.html>
11. In Snobol 2 spaces are used for , 1st for \_\_\_\_\_, 2nd for \_\_\_\_\_
12. \_\_\_\_\_ has elaborated exception handling (ADA, C++, JAVA, COBOL)
13. \_\_\_\_\_ has a powerful set of operators but poor type checking (C, C++, ADA, LISP)
14. \_\_\_\_\_ and \_\_\_\_\_ have declaration paradigm (Prolog, SQL)
15. 1st machine independent language is \_\_\_\_\_ sonobol
16. To make necessary arguments at run time error is called \_\_\_\_\_ (exception handling)
17. Language with wide domain of application has higher \_\_\_\_\_ (generality)
18. \_\_\_\_\_ has distributed computing architecture (COBRA)
19. Readability has no influence on the cost of \_\_\_\_\_ (deployment)
20. The depth at which we can think is influenced by \_\_\_\_\_ (implementation details)

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## CS508 MIDTERM PAPER SUBJECTIVE QUESTIONS 2005 - MODERN PROGRAMMING LANGUAGES



Published on Sunday, 25 December 2011 08:42

Written by Fuad Hasan

### **CS508 - MODERN PROGRAMMING LANGUAGES - Q. NO.1:**

Discuss the significance of readability as the language evaluation criterion. Readability:

-

### **CS508 - MODERN PROGRAMMING LANGUAGES - Q. NO.2:**

Convert the following code in C in to equivalent LISP code using the most appropriate constructs:

-

### **CS508 - MODERN PROGRAMMING LANGUAGES - Q. NO.3:**

Identify the mistake(s) in the following Ada code segment. After correcting it, convert it into equivalent C and LISP code:

### **CS508 - MODERN PROGRAMMING LANGUAGES - Q. NO.4:**

We studied several reasons to study programming languages. With that context in mind discuss:

(a) Increased capacity to express programming concepts

(b) Improved background for choosing appropriate languages and show the output.

-

### **CS508 - MODERN PROGRAMMING LANGUAGES - Q. NO.5:**

For the following SNOBOL program, explain the meaning of each line

-

### **CS508 - MODERN PROGRAMMING LANGUAGES - Q. NO.6:**

Discuss the difference between enumeration types of C and Ada. Which is better and why?