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Modern Programming Languages

Provided by Sarim

Q1) SNOBOL design by write 3 names

Answer:

SNOBOL was designed by Ralph E. Griswold, David J. Farber, and Ivan P. Polonsky.

Q2) How we can increase readability by using different languages, write 5 at least.

Answer:

Five languages that can increase readability are Python, Ruby, Swift, TypeScript, and Kotlin.

Q3) Type a record name school by using Ada language

Answer:

type School_Record is record

-- Define attributes here

end record;

Q4) 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)

Answer:

To remove the "WEIGHT" attribute from the symbol list in Lisp: ```(setq a (remprop 'a 'WEIGHT))```

Q5) Businesses application

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Scientific application

System application

Write their Opposite language

Answer:

Business application: COBOL

System application: C

Scientific application: Fortran

Q6) five feature of java main sy eliminates kr diye gay h pr c++ main hain Wo feature likny thy

Answer:

Features eliminated from C++ but present in Java are Garbage Collection, Automatic Memory Management, and Multithreading.

Q7) snobol main correct matching o rai ya nai jis ki ho rai wo linki reasoning b batani

a)pattern "scarf"

Subject "car"

b)pattern "scarf"

Subject "cars"

Answer:

(a) Correct matching: No

(b) Correct matching: Yes (Pattern "scarf" matches with "cars").

Q8) Lisp Ka 3 built in function ju kisi ko value assign krna ka lia use hu

Three built-in functions in Lisp for assigning values are `setq`, `setf`, and `set`.

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Q9) Language design kb hui C++ java c#

Answer:

C++ was designed in 1979, Java in 1995, and C# in 2000.

Q10) Effect of computer architect on languages

Answer:

Computer architecture influences programming languages by determining their efficiency, scalability, and compatibility with hardware.

Q11) Student ka record bnana thaa id name age or address ka ada mein

Answer:

```
type Student_Record is record
   ID: Integer;
   Name: String(1..50);
   Age: Integer;
   Address: String(1..100);
end record;
```

Q12) Pascal main simple "Hello World" program likhna tha, with starting and ending statements as well.

Answer:

```
program HelloWorld;
begin
  writeln('Hello, World!');
end.
```

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Q13) Describe the following statement by SNONOBOL

:S(label2) F(label3)

Answer:

The statement in SNOBOL S(label2) F(label3) is used to search for the pattern defined by label2 and then execute the function defined by label3.

Q14) Programming language ki simplicity aur readability question

Answer:

Simplicity and readability are enhanced in programming languages through clear syntax, minimalistic constructs, and meaningful naming conventions.

Q15) Name three function of list in LISP

Answer:

Three functions of lists in Lisp are **car**, **cdr**, and **cons**

Q16) How study of different languages help in creating new Language

Answer:

Studying different languages helps in creating new languages by providing insights into various language features, syntax structures, and programming paradigms that can be combined and improved upon in new languages.

Q17) 3 functions of creating list in lisp 3.

Answer:

Three functions for creating lists in Lisp are **cons**, **list**, and **append**

Q18) Factors impacting on readability

Answer:

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Five factors impacting readability are syntax simplicity, consistent naming conventions, proper indentation, meaningful comments, and modular code organization.

Q19) S(label1) F(label3) This statement of SNOBOL represents?

Answer:

The statement S(label1) F(label3) in SNOBOL represents a pattern search (S) followed by the execution of a function (F) based on the search result.

Q20) Names of 3 string manipulation languages?

Answer:

Three string manipulation languages are Perl, awk, and Sed.

Q21) If statement syntax in C And in Ada language batana tha?

Answer:

Syntax for an if statement in C:

```
if (condition) {
    // code block
} else {
    // code block
}
```

Syntax for an if statement in Ada:

```
if condition then
   -- code block
else
   -- code block
end if;
```

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Q22) SNOBOL k concatenation k liye pattern matching k ilawa dosra knsa operator use kr sakte hain .....us operator k name or example de k batana tha?

Answer:

Apart from pattern matching, the CAT operator in SNOBOL is used for concatenation.

Example: result = 'Hello' CAT ' World' concatenates two strings to form 'Hello World'.

Q23) Language name jis mai array boundary check ni hoti, orr usky issues due to uncheck boundary

Answer:

Language without array boundary checks

C/C++. Issues include memory corruption and security vulnerabilities due to unchecked boundaries.

Q24) Ada operators table

Answer:

Ada operators table: Operator symbol and description.

Q25) 5 reasons to learn New languages.

Answer:

Enhance problem-solving skills, expand career opportunities, keep up with industry trends, foster creativity, and gain insights into different programming paradigms.

Q26) 3 author names of programming languages

Answer:

Authors of programming languages

- Dennis Ritchie (C)
- Bjarne Stroustrup (C++)

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- James Gosling (Java)

Q27) Ada code for even odd number

Answer:

```
procedure Even_Odd is
   Num: Integer;
begin
   Put("Enter a number: ");
   Get(Num);
   if Num mod 2 = 0 then
      Put_Line(Num'Image & " is even.");
   else
      Put_Line(Num'Image & " is odd.");
   end if;
end Even_Odd;
```

Q28) 5 major reasons to study concepts of programming

Answer:

Reasons to study programming concepts

- Develop logical thinking
- Enhance problem-solving abilities
- prepare for career opportunities
- Understand technology better
- Contribute to innovation

Q29) SNOBOL label conditional and unconditional jumps

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Answer:

An unconditional jump transfers program control to a specific label unconditionally. For example:

```
L1   OUTPUT = 'Hello'
     GOTO L2
L1   OUTPUT = 'World'
L2   OUTPUT = '!'
```

A conditional jump is based on a condition. It transfers control to a label only if a certain condition is true. For example:

```
     IF I = 1 THEN GOTO L1
     OUTPUT = 'Not 1'
     GOTO L2
L1   OUTPUT = 'Is 1'
L2   OUTPUT = '!'
```

Q30) Types of logical operators in PHP?

Answer:

Logical operators in PHP:

AND, OR, NOT, XOR, &&, ||.

Q31) Name the application areas where prolog language is suitable?

Answer:

Prolog application areas are

Artificial intelligence, natural language processing, expert systems.

Q32) Types of arrays in c#?

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Answer:

Arrays in C#:

Single-dimensional arrays, multi-dimensional arrays, jagged arrays.

Q33) Five features of c# vs java?

Answer:

Features of C# vs Java:

Feature	C#	Java
Strongly-typed language	Yes	Yes
Automatic memory management	Yes (Garbage Collection)	Yes (Garbage Collection)
Platform independence	Partial (Can run on multiple platforms)	Yes (Runs on any platform with JVM)
Rich standard library	Yes (.NET Framework)	Yes (Java Standard Library)
Object-oriented support	Yes	Yes

Q34) 1964 py designers ka kya point of view tha k languages kesi honi chahye.

Answer:

Designers' perspective in 1964: Languages should be simple, efficient, and suitable for system programming.

Q35) 1 program lisp ka

Answer:

; This Lisp program prints "Hello, World!" to the console

(format t "Hello, World!")

Q36) Two Names of languages develop for IBM systems

Answer:

IBM systems programming languages

PL/I (Programming Language One)

RPG (Report Program Generator)

COBOL (Common Business-Oriented Language)

Q37) How 'flow of control' is managed in SNOBOL?

Answer:

Flow of control in SNOBOL is managed using labels and conditional or unconditional jumps.

Q38) Enlist 5 costs associated in software development?

Answer:

Costs in software development are

- Development cost
- Maintenance cost
- Training cost
- Hardware cost
- Licensing cost

Q39) Ada program to print first 5 multiple with 5 by using For loop?

Answer:

```
with Ada.Text_IO;
procedure Hello_World is
begin
   Ada.Text_IO.Put_Line("Hello, World!");
end Hello_World;
```

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Q40) Ada ka hello work ka program

Answer:

```
procedure Hello_World is
begin
   Ada.Text_IO.Put_Line("Hello, World!");
end Hello_World;
```

Q41) Prolog k facts

Answer:

Prolog facts: Facts are statements about relationships between objects or properties, defined using predicates. Example: likes (john, pizza).

Q42) Snobol me control flow kesy hota?

Answer:

In SNOBOL, control flow is managed using labels and unconditional or conditional jumps.

Q43) Readability me simplicity ka Kiya role hai or simplicity k factors Kiya hien?

Answer:

Simplicity plays a crucial role in readability by making code easier to understand and maintain.

Factors include clear naming conventions, minimalistic design, and avoiding unnecessary complexity.

Q44) Features of PL/1 5. What were designer goals to design basic in 1964 explain at least 5 steps

Answer:

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Features of PL/1 include strong data typing, structured programming constructs, extensive standard library, support for recursive procedures, and portability across platforms.

Designer goals for BASIC: In 1964, BASIC was designed to be easy to learn, versatile, interactive, suitable for non-programmers, and capable of running on a wide range of computers.

Q45) Name three functions of lisp which are used to construct list in lisps.

Answer:

Three functions for constructing lists in Lisp are cons, list, and append

Q46) Tell three ways to write fortran.

Answer:

Fortran code can be written using fixed-form, free-form, or mixed-form styles.

Q47) Enlist 5 reasons why we study programing languages.

Answer:

Reasons to study programming languages

- Enhance problem-solving skills
- Understand diverse programming paradigms
- prepare for career opportunities
- Contribute to innovation
- Improve logical thinking abilities

Q49) Ada ka program record krana tha

Answer:

```
procedure Declare_Student_Record is
   type Student_Record is record
```

```
    ID    : Integer;
    Name  : String(1..50);
    Age   : Integer;
    Address : String(1..100);
  end record;
begin
  -- Code body can be left empty as this is just a declaration
  null;
end Declare_Student_Record;
```

Q50) Enlist any three mathematical functions used in LISP.

Answer:

Lisp mathematical functions: **sin**, **cos**, **sqrt** are mathematical functions used in Lisp.

Q51) What are the benefits to allow special keywords for signaling the start and end of "if statement"? Elaborate it with examples of C and Ada language.

Answer:

Special keywords in "if statement": Special keywords improve code readability and help in understanding program logic.

Example in C: if (condition) { code block }.

Example in Ada: if condition then code block end if.

Q52) Declare a record named as Student in Ada, that will contain id, name, age and address. Note: complete code is not required. Just write the code for record.

Answer:

Ada record declaration:

type Student_Record is record

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id : Integer;

name : String(50);

age : Integer;

address : String(100);

end record;

Note:

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