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Q1 How many variables are being supported by java justify your answer with the help java coded example for each variable?

ANS:-

A variable provides us with named storage that our programs can manipulate. Each variable in Java has a specific type which determines the size and layout of the variable's memory, the range of value that can be stored within the memory and the set of operations that can be applied to the variable.

You must declare all variables before they can be used. Following is the basic form of a variable declaration. Following are valid examples of variable declaration and initialization in Java.

Example:-

<code>int a, b, c</code>	" Declares three ints, a, b, c
<code>int a = 10, b = 10</code>	" Example of initialization
<code>byte B = 22;</code>	" initializes a byte type variable B

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double pi = 3.14159; // declares and assigns
or value of pi

char a = 'a'; // the char variable a is
initialized with value 'a'

Question No \Rightarrow 02

Why "if" is used in java. justify your answer with the help in java coded ~~expt~~ example and explain in detail?

Ans:-

Use of "if" in Java.

Use of "if" in Java are followings.
if is use when we need to execute a set of statment based on a condation. The statment gets executed only when the given condation is true if the

condition is true. If the condition is false then the statement inside if statement body are completely ignored.

Example of "if" statement in Java.

For example if a number is greater than zero then want to print Positive Number but if it is less then we want to print "Negative Number". In this case we have two print statement in the program but only one print statement executes at a time based on the input value.

Public class if statement Examples {

Public static void main (String args []) {

int number = 90

if (number < 100) {

// This println statement will only executes

if the above condition is true

System.out.println("number is less than 100")

}

}

}

output

Number is less than 100.

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Question No \Rightarrow 03:-

Why if else if is used in java justify your answer with the help of java coded example and explain in detail?

Answer:-

The if else if statement allows you to create a chain of its statement. The statements are evaluated in order until one of the if expressions is true or the end of the if else if chain is reached. If the if else if chain is reached without a true expression, no code blocks are executed.

```
if (condition)
```

```
{
```

```
    // do this if condition 1 is true
```

```
    // condition 1 statement
```

```
    // then if else if
```

```
}
```

```
else if (condition)
```

```
{
```

```
    // do this if condition is true
```

```
    // condition 2 statement
```

```
    // then exit if else if
```

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}

else if (condition)

{

" do this if condition is true

" condition statement

" then exit if/else if

}

" continuation point after if/else if is complete.

Question ⇒ 04 :-

What are loops why they are used in java and how many types of loops are being supported by java explain in detail?

Ans

Loop are control structures used to repeat a given section of code a certain number of time or until a particular condition is met Visual Basic has three main type of loops

Types of loops

For Loops :-

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For Loop

The java for loop is control flow that part of the programs multiple time

If the number of iteration is fixed it is recommended to use for loops

```
for (init, condition, incr / dec) {  
    // code to be executed.
```

```
// for loop for (int i = 1, i <= 10, i++)  
    System.out.println(i);
```

```
for (i) { // code to be executed }
```

while Loop:-

The java while loop is a control flow statement that executed a part of the program repeatedly on the basis of given boolean condition.

If the number of iteration is not fixed it is recommended to use while loop.

```
while (condition) { // code to be  
    executed.
```

```
// while loop int i = 1  
while (i <= 10) {
```

```
    System.out.println(i);  
    i++;
```

```
while (true) { // code to be  
    executed.
```

Do while loop:-

The java do while loop is a control flow statement executes a part of the programs at least once and the future execution depend upon the given boolean condition.

If the number of iteration is not fixed and you must have to executes for loop at least once, it's recommended to use the do while loop.

do{

~~code~~ " code to be executed) while (condition)

" do while loop

int i = 1;

do{

System.out.println(i); i++;

} while (i <= 10)

do

code to be executed } while (true);

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Q → 05 :-

Write 3's table in decremented form in Java which takes input from user write java coded program and explain in detail?

Answer:-

```
import java.util.Scanner
class Display Reverse Table {
    Public static void main (String args[])
        System.out.println("Enter the table you want");
        Scanner sc = new Scanner (System.in)
        for (int i = 10; i >= 1; --i)
        {
            int product = number * i;
            System.out.println (number + " x " + i + " = " + product);
        }
}
```

Output

Enter the table you want
3

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$$3 \times 10 = 30$$

$$3 \times 9 = 27$$

$$3 \times 8 = 24$$

$$3 \times 7 = 21$$

$$3 \times 6 = 18$$

$$3 \times 5 = 15$$

$$3 \times 4 = 12$$

$$3 \times 3 = 9$$

$$3 \times 2 = 6$$

$$3 \times 1 = 3$$