Answer to this paper must be written on a paper provided separately.

You will not be allowed to write during the first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this paper is the time allowed to write the answers. This paper is divided into TWO sections. Attempt ALL the questions from Section A and any four questions from Section B.

The intended marks for questions or parts are given in brackets[].

		SECTION 'A' [40 Marks]	
		Attempt all questions from this section.	
Q.1-	a.	What are key a ords? Give an example.	[2]
	b.	Define break : atement.	[2]
	c.	What is Expl s it type conversion?	[2]
	d.	What is the are of keyword final?	[2]
	e.	Define bloc c. Give an example.	[2]
Q.2-	a.	Define fall through.	[2]
100	b	Define ternary operator.	[2]
	c.	Write the syntax and example of for statement	[2]
	d.	Define Dynamic initialization with example.	[2]
	e.	Define Nested loop.	[2]
Q.3-	a.	Give the output of the following:	[2]
		i. if x=-68.75, calculate Math. abs(x);	
		ii. if x=25.0, calculate Math. sqrt (x);	Field
	b.	If a=5, b=9, calculate the value of:	- 6
		i. a+=a++-++b+a	[2]
		ii. $p=(a++*b++)+-b/3$	[2]
	c.	Rev ite the following using ternary operator:	[2]
		if(p>5000)	
		g=p*5/100;	
		else of the second seco	
		g=2*p/100;	
	d.	Vite the Java expression: For the following:	[2]
		i. $x^3 + y^3 - \frac{xy}{z}$ ii. $\frac{(a+b)^n}{\sqrt{2} + b}$	6
		$\sqrt{2+b}$	
	e.	Differentiate he treen	501
		i. if else a el switch	[2]
		ii. while a t I do-while	[2]
	f.	Rewrite the program code using do-while.	[2]
		int x, c;	
		for $(x=10, c=20; c=10; c=1-2)$	
		x++; Strantid est conswolls to State H	
		System.out.prottln(x);	[4]
	g.	Give the output:	[4]
		i. int x=1, y=1;	
		if (m>0)	
		x=x+1;	
		y=y+1;	
		What will be the value of x and y, if m assumes a value:	
		a. 1 b. 0	
		ii. class d	
		그리다 그 그 그 사람들이 얼마 보고 있는데 가게 되었다면 얼마를 받아 있다면 가게 되었다면 하는데 되었다면 그 사람들이 되었다.	

public static void main (Str ag args[])

```
HALLEYEARLY EXAMENATION: 2012
                             int i=2, k=1;
                             while (++i<6)
                             k*=i:
                            system.out.println(k);
                                     SECTION 'B' [60 Marks]
          Answer any Four questions from this section
             Each program should be written using variable description/mnemonic codes
                         such that the lobic of the program is clearly depicted.
                             Flow charts and algorithms are not required.
0.4-
              What is Internet? Name 2 types of networks used in Internet.
       a.
                                                                                                [5]
              What do you understand by Ethics? Mention at least 3 ethical values.
       b.
                                                                                                [5]
              Distinguish between Hardware and Software.
       C.
                                                                                                [5]
              Name 5 different services provided by Internet.
                                                                                                [5]
       b.
              Write short notes on:
                                                                                                [5]
                     Software piracy
                                                 ii. Hacking
              What do you understand by Recycle Bin.
       C.
                                                                                               [5]
Q.6-
              Write a program to display the first 10 numbers of the Fibonacci series.
       a.
                                                                                                [7]
              Input a number and print the sum of its digits.
                                                                                                [8]
       Write a menu driven class to accept a number from the user and check whether it is a palindrome
       or a perfect number.
                                                                                              [15]
              Palindrome number: (A number is a palindrome which when read in reverse order is same
              as in the right order)
              Eg- 11, 252, 37873 etc.
              Perfect number: (A number is called perfect if it is equal to the sum of its factors other than
              the number itself)
              Eg-6=1+2+3
              Write a program to display the given pattern.
                                                                                                [7]
              1
                     0
                     0
                                   0
                                   0
                                      cannon burnet of lowers
       b.
              Write a program to display the sum of the following series:
                                                                                                [8]
              s = \frac{1+2}{1*2} + \frac{1+2+3}{1*2*3} + \frac{1+2+3+\dots+n}{1*2*3*\dots+n}
Q.9-
       Write a program in JAVA to find the gross salary of an employee for the following allowances and
       deductions.
                                                                                               [15]
       Use meaningful variable with a class name employee and basic as input.
       Allowance/Deduction
      Downess Allowance
                                                 25% of BASIC
      House Rent Allowance
                                                 15% of BASIC
       Provident fun
                                                 8.30% of BASIC
      Net pay= Basic +DA+HRA
      Gross pay= Netpay-PF
```