QUES-1) WHAT IS AN INTERFACE IN JAVA?

ANS) IT IS USED TO DECLARE A BEHAVIOUR THAT CLASSES MUST IMPLEMENT, WE CAN’T INITIALIZE THE INTERFACE, INTERFACE HAS NO CONTRUCTOR, WE USE interface KEYWORD TO IMPLEMENT THE INTERFACE.

interface Interface{

    void display();

    void show();

}

class Human implements Interface{

    void display{

        System.out.println("i am in display class");

    }

     void show(){

        System.out.println("i am in display method");

    }

    public static void main(String[] args) {

        Human obj = new Human();

        obj.display();

        obj.show();

    }

}

QUES-2) WHICH MODIFIERS ARE ALLOWED FOR METHODS IN AN INTERFACE? EXPLAIN WITH AN EXAMPLE?

ANS) BY DEFAULT ALL THE METHODS IN INTERFACE ARE PUBLIC ABSTRACT

* WE CAN USE THE DEFAULT KEYWORD TO WRITE THE BODY OF AN INTERFACE.
* WE USE STATIC KEYWORD TO WRITE THE BODY OF AN INTERFACE.

QUES-3) WHAT IS THE USE OF INTERFACE IN JAVA? OR WHY DO WE USE AN INTERFACE IN JAVA?

ANS)

1. INTERFACE IS USED TO ACHIEVE MULTIPLE INHERITANCE.
2. IT IS USED TO AVOID AMBIGUITY.
3. IN INTERFACE WE CAN DECLARE STATIC METHOD AND NON STATIC METHOD.
4. WITH THE HELP OF STATIC METHOD WE CAN CALL THE METHOD THROUGH INTERFACE NAME, BUT THROUGH CONCRETE METHOD WE CAN CALL THE METHODS BY IMPLEMENTING THE INTERFACE INTO THE CLASS.

QUES-4) WHAT IS THE DIFFERENCE BETWEEN ABSTRACT CLASS AND INTERFACE IN JAVA?

ANS)

ABSTRACT CLASS- IF THERE IS A ABSTRACT CLASS THAN THEIR HAS TO BE ALTEAST ONE ABSTRACT METHOD, WE CANNOT ASSIGN BODY IN ABSTRACT METHOD, IN THIS WE CAN ACHIEVE 100% ABSTRACTION, IT IS ACHIEVED BY USING ABSTRACT KEYWORD.

INTERFACE- IF THERE IS AN INTERFACE, IT IS USED TO ACHIEVE MULTIPLE INHERITANCE, IN THIS THERE ARE TWO TYPES OF METHOD STATIC AND NON STATIC, IT IS USED TO AVOID AMBIGUITY, IN THIS WE CAN’T ACHIEVE 100% ABSTRACTION, WE USE IMPLEMENTS KEYWORD TO DO IMPLEMENT THE INTERFACE.

QUES-5) WHAT IS THE LAMBDA EXPRESSION OF JAVA 8?

ANS) THE EXPRESSION WHICH WORKS AS AN CONDITIONAL STATEMENT

SYNTAX-

(PARAMETER-LIST) -> {BODY}

QUES-6) CAN YOU PASS LAMBDA EXPRESSION TO A METHOD? WHEN?

ANS) YES, WHEN IN INTERFACE IS FUNCTIONAL, THROW THIS WE CAN DIRECTLY INSTANTIATE THE LAMBDA EXPRESSION IN MAIN METHOD.

QUES-7) WHAT IS THE FUNCTIONAL INTERFACE IN JAVA 8?

ANS) THE INTERFACE WHICH HAS ONLY ONE METHOD.

QUES-8) WHY DO WE USE LAMBDA EXPRESSION IN JAVA?

ANS) – TO WRITE SHORT CODE

* IT IS THE SUBSTITUTE OF INNER CLASSES.

QUES-9) IS IT MANDATORY FOR A LAMBDA EXPRESSION TO HAVE PARAMETERS?

ANS) NO.