

QUESTION 1:

```
package inhertance;
import java.io.IOException;
import java.io.*;
interface MyInterface
{
    public void getdata()throws IOException;
    public void result()throws IOException;
}
class XYZ implements MyInterface
{
    int a,b;
    public String n ;
    public String m;
    public void getdata()throws IOException

    {

        DataInputStream op=new DataInputStream(System.in);
        System.out.println("enter a:");
        n=op.readLine();
        a=Integer.parseInt(n);
        m=op.readLine();
        b=Integer.parseInt(m);
    }

    public void result()throws IOException
    {
        getdata();
        int c;
        c=a*b;
        System.out.println("product of "+a+"*"+b+"="+c);
    }
}

public class Inhertance {

    public static void main(String[] args)throws IOException
```

```

{

    MyInterface obj = new XYZ();

    obj.result
    ();
}
}

```

QUESTION 2:

```

package mainclass;

import javax.swing.*;
class ABC
{
    String fname;
    int i;

    ABC()
    {
        DEF op=new DEF();
        op.getdata();
    }

    private class DEF
    {
        public void getdata()
        {

            JOptionPane op=new JOptionPane();
            fname=op.showInputDialog(null,"enter your firtsname:");
            i=1;
            do
            {
                System.out.println(i+" .hello "+fname);
                i++;
            }
            while(i<=10);
        }
    }
}
}

```

```

public class Mainclass {

    public static void main(String[] args) {
        ABC m= new ABC();
    }

}

```

QUESTION 3

```

package abstractclass;
import javax.swing.*;
abstract class Mara
{
    protected int num;
    protected String s1;

    public void getdata()
    {
        JOptionPane op=new JOptionPane();
        s1=op.showInputDialog(null,"enter number:");
        num=Integer.parseInt(s1);

        if(num>0&&num<=20)
        {
            int i;
            i=1;
            do
            {
                System.out.println(num+"*"+i+"="+num*i);
                i++;
            }
            while(i<=12);
        }
        else
        {
            JOptionPane m=new JOptionPane();
            m.showMessageDialog(null,num+" is not in range given!!!");
        }
    }
}

```

```

    }
}
class response extends Mara
{
    public void display()
    {
        getdata();
    }
}
public class ABSTRACTCLASS {

    public static void main(String[] args)
    {
        response o=new response();
        o.display();
    }

}

```

QUESTION 4:

```

import java.awt.*;
import java.applet.*;

public class NewApplet extends Applet {

    public void paint(Graphics obj) {
        obj.setColor(Color.blue);
        obj.drawString("welcome to Applet programming",20,20);
        obj.setColor(Color.red);

        obj.drawLine(20, 40, 200, 40);

    }

}

```