exp1

```
import java.util.Scanner;
class TakeInput
{
    public static void main(String args[])
    {
        String inputstring;
        System.out.println("Enter a number: ");
        Scanner scanner=new Scanner(System.in);
        inputstring=scanner.nextLine();
        int i,tab;
        for(int i=1;i<=10;i++)
        {
            tab=inputstring*i;
            System.out.println(+tab);
        }
    }
}
```

exp3

```
import java.io.IOException;

public class NotePad {
   public static void main(String[] args)
   {
      Runtime rs = Runtime.getRuntime();
       try
          {

         rs.exec("notepad.exe");
         System.out.println("Notepad opened successfully.");
      }
          catch (IOException e)
          {
         System.out.println("Error occurred: " + e.getMessage());
      }
   }
}
```

Exp2.0

```
import java.io.DataInputStream;

class InputDemo
{
	public static void main(String args[])
	{
		int num;
		DataInputStream in = new DataInputStream(System.in);
		try
		{
			System.out.println("Please enter the number:");
			num =Integer.parseInt(in.readLine());
			System.out.println("Entered number:" +num);
		}
		catch(Exception e)
		{
			System.out.println("Error is :" +e);
		}
		finally
		{
			System.out.println("No problem");
		}
	}
}
```

Exp 2.1

```
import java.util.Scanner;

class Main
{
	public static void main(String aishu[])
	{
		Scanner sc= new Scanner(System.in);
		System.out.println("Enter name, age and
		salary:"); String name= sc.nextLine(); int
		age=sc.nextInt();
		double salary= sc.nextDouble();
		System.out.println("Name = " +name);
		System.out.println("Age = " +age);
		System.out.println("Salary = " +salary);

	}
```

```
}

Exp 5.0
class Exam
{
	private int k;
	private String stress;
	public Exam()
	{
		 this.stress = "Welcome to SE3";
	}
	public Exam(int a, int b)
	{
		this.k=a+b;
	}
	public String toString()
	{
		return stress;
	}
	public int Sum()
	{
		return k;
	}

	public static void main(String []aishu)
	{
		Exam d1=new Exam();
		Exam d2=new Exam(10,30);
		System.out.println(d1);
		System.out.println(d2.Sum());
	}
}
Exp 5.1
class Stress {
   private String msg;
   private int sum;

   public Stress() {
      this.msg = "Welcome to SE3";
   }
   public Stress(int i, int j) {
      this.sum = i + j;
   }
   public int Sum(){
```

```
        return sum;
        }

    public String toString() {
      return msg;
    }

    public static void main(String[] aishu) {
        Stress d1 = new Stress();
        Stress d2 = new Stress(10, 20);
        System.out.println(d1);
        System.out.println(d2.Sum());
    }
}
```

Exp 6

```
package myPackage;
        public class MyClass
        {
                public void getName(String aishu)
                {
                        System.out.println(aishu);
                }
        }

import myPackage.MyClass;

        public class PrintName
        {
                public static void main(String args[])
                {
                        String name = "Hello";
                        MyClass obj=new MyClass();
                        obj.getName(name);
                }
        }
```

Exp 9 multilevel inheritance

```
class A
{
protected int num = 20;
```

```
void welcome()
{
System.out.println("Welcome A");
}
}

class C extends A
{
void welcome(int a)
{
System.out.println("Welcome C: "+a);
}
}

class B extends C
{
public static void main(String args[])
{
B b1 = new B();
b1.welcome();
b1.welcome(10);
System.out.println("Number: "+b1.num);
}
}
```

Exp 8

```
class A
{
	protected int num = 20;
	void welcome()
	{
		System.out.println("Welcome A");
	}
}

class B2 extends A
{
	public static void main(String args[])
	{
		A a1 = new A();
		a1.welcome();
		System.out.println("Number: "+a1.num);
	}
}
```

EXp 9.0 multiple

```
interface B {
   void Welcome(int a);
}

class A {
   public void Welcome() {
      System.out.println("Welcome A");
   }
}

class CI extends A implements B {
   @Override
   public void Welcome(int a) {
      System.out.println("Welcome B = " + a);
   }

   public static void main(String[] args) {
      CI c1 = new CI();
      c1.Welcome();      // Calls Welcome() from class A
      c1.Welcome(10);    // Calls Welcome(int a) from interface B implemented in CI
   }
}
```

EXP 7

```
class StringStorage
{
        public static void main(String aishu[])
        {
                String s1 = "Nice ";
                String s2 = new String("to");
                StringBuffer s3 = new StringBuffer("meet");
                StringBuilder s4 = new StringBuilder("you");
                s4=s4.append(" all");
                System.out.println(s1);
                System.out.println(s2);
                System.out.println(s3);
                System.out.println(s4);
        }
}
```

Exp10

```
import java.lang.Throwable;
```

```
public class Test
{
	public static void main(String []aishu)
	{
		try
		{
			System.out.println("Welcome to Java");
			int sum= 9/0;
			System.out.println("2");
		}
		catch(ArithmeticException e)
		{
			System.out.println("3");
		}
		catch(Exception e)
		{
			System.out.println("4");
		}
		finally
		{
			System.out.println("5");
		}
	}
```

Exp 11

```
import java.util.Scanner;
public class ExceptionHandling
{
   public static void main(String[] args)
   {
        Scanner sc = new Scanner(System.in); //Declaring Scanner variable to take input from
user

        System.out.println("Enter Your Age");

        int age = sc.nextInt();         //Taking input from user

        try
        {
           if(age < 0)
           {
```

```
                throw new AgeIsNegativeException("Age can not be negative"); //throws
AgeIsNegativeException if age is negative
            }
        }
        catch(AgeIsNegativeException ex)
        {
            System.out.println(ex);    //Output : Age can not be negative
        }
    }
}
class AgeIsNegativeException extends Exception
{
    String errorMessage;

    public AgeIsNegativeException(String errorMessage)
    {
        this.errorMessage = errorMessage;
    }

    //Modifying toString() method to display customized error message

    @Override
    public String toString()
    {
        return errorMessage;
    }
}
```

Exp 12

```
import java.util.Scanner;

class Even extends Thread{
        @Override
        public void run(){
                int a = 3;
                int ans=a*a;
                System.out.println(ans);
        }
}

class odd extends Thread{
        @Override
        public void run(){
                int a=3;
```

```
                int ans=a*a*a;
                System.out.println(ans);
        }
}

class MultiThreading{
        public static void main(String args[])
        {
                Scanner sc=new Scanner(System.in);
                new Even().Start();
                new Odd().Start();
        }
}
```

Exp 13:

```
import javax.swing.*;
import java.awt.*;

public class SmileyExc extends JPanel {
   public void paintComponent(Graphics g) {
      super.paintComponent(g);

      // Set color for the face
      g.setColor(Color.yellow);
      g.fillOval(20, 20, 150, 150); // Draw face

      // Set color for the eyes
      g.setColor(Color.black);
      g.fillOval(50, 60, 15, 25); // Left eye
      g.fillOval(120, 60, 15, 25); // Right eye

      // Draw the nose using a polygon
      int x[] = {95, 85, 106, 95};
      int y[] = {85, 104, 104, 85};
      g.drawPolygon(x, y, 4);

      // Draw the smile (arc) with corrected angles
      g.drawArc(55, 95, 78, 50, 0, -180); // Smile

      // Draw lines to complete the mouth
      g.drawLine(50, 126, 60, 116); // Left curve of smile
      g.drawLine(128, 115, 139, 126); // Right curve of smile
   }

   public static void main(String[] args) {
      JFrame frame = new JFrame("Smiley Face");
      SmileyExc smiley = new SmileyExc();
      frame.add(smiley);
      frame.setSize(200, 200);
```

```
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setVisible(true);
    }
}
```

Exp 14

```
import javax.swing.*;      // For GUI components like JFrame, JButton, JLabel, etc.
import java.awt.*;         // For layout and other graphical utilities
import java.awt.event.*;   // For ActionListener

class CreateLoginForm extends JFrame implements ActionListener {
    // Declare the components
    JButton b1;
    JPanel newPanel;
    JLabel userLabel, passLabel;
    final JTextField textField1, textField2;

    // Constructor to set up the form
    CreateLoginForm() {
        // Set up user label
        userLabel = new JLabel();
        userLabel.setText("Username:"); // Set label text
        textField1 = new JTextField(15); // Set the length of the text field

        // Set up password label
        passLabel = new JLabel();
        passLabel.setText("Password:");
        textField2 = new JPasswordField(15); // Use JPasswordField for password input

        // Set up submit button
        b1 = new JButton("Submit"); // Create a button
        b1.addActionListener(this);  // Add action listener to the button

        // Create a new panel to hold components
        newPanel = new JPanel(new GridLayout(3, 1)); // 3 rows, 1 column
        newPanel.add(userLabel); // Add username label to panel
        newPanel.add(textField1); // Add username text field to panel
        newPanel.add(passLabel);  // Add password label to panel
        newPanel.add(textField2); // Add password text field to panel
        newPanel.add(b1);         // Add the submit button to panel

        // Add the panel to the frame
        add(newPanel, BorderLayout.CENTER);

        // Set the frame properties
        setTitle("Login Form");   // Set the title of the window
        setSize(300, 150);        // Set the size of the window
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE); // Close operation
    }

    // This method will be called when the button is clicked
```

```
    public void actionPerformed(ActionEvent e) {
        String username = textField1.getText();       // Get the username
        String password = textField2.getText();       // Get the password

        // Display the username and password
        JOptionPane.showMessageDialog(this, "Username: " + username + "\nPassword: " +
password);
    }

    // Main method to run the form
    public static void main(String[] args) {
        try {
            CreateLoginForm form = new CreateLoginForm(); // Create an instance of the form
            form.setVisible(true);  // Set the form visibility to true
        } catch (Exception e) {
            JOptionPane.showMessageDialog(null, e.getMessage()); // Show error message if
exception occurs
        }
    }
}
```