```
import java.util.*;
class ques1
{
      public static void main(String args[])
      {
              ArrayList<String> al = new ArrayList<>();
             al.add("SuperMan");
              al.add("Batman");
             al.add("SpiderMan");
             al.add("IronMan");
             al.add("CaptainAmerica");
             for(String i:al)
             {
                     System.out.println(i);
             }
      }
}
```

```
C:\Users\Aakash\Desktop\Java_Exam>javac ques1.java

C:\Users\Aakash\Desktop\Java_Exam>java ques1

SuperMan

Batman

SpiderMan

IronMan

CaptainAmerica

C:\Users\Aakash\Desktop\Java_Exam>

O1_Aakash Rohila_DBDA
```

```
class BankAccount
{
      int accno=100;
      double balance;
      BankAccount()
      {
      }
      BankAccount(int x)
             System.out.println("====Welcome to LenaDena Bank====");
             accno = accno + 1;
             balance = x;
             System.out.println("Account "+ accno +" Created Successfully with
balance: " + balance);
             System.out.println();
      }
      void withdraw(int bal) throws Exception
             if(bal<balance)
             {
                    balance = balance - bal;
                    System.out.println("Money Withdrawn : Rs" + bal);
                    System.out.println();
             }
             else
             {
                    throw new Exception("Withdrawn Amount Rs"+ bal +" more than
Balance");
             }
      }
      void deposit(int bal)
             balance = balance + bal;
             System.out.println("Rs" +bal + " Money Deposited");
             System.out.println();
      }
```

```
void show()
      {
             System.out.println("Account Number : " + accno);
             System.out.println("Balance : Rs" + balance);
             System.out.println();
      }
}
class ques2
{
       public static void main(String args[])
      {
             BankAccount ba = new BankAccount(1000);
             ba.show();
             ba.deposit(1000);
             ba.show();
             try
             {
                    ba.withdraw(1000);
             }
             catch(Exception e)
             {
                    System.out.println("==Invalid Input==");
             ba.show();
             try
             {
                    ba.withdraw(5000);
             }
             catch(Exception e)
             {
                    System.out.println("==Invalid Input==" + e);
             }
             ba.show();
      }
}
```

C:\Users\Aakash\Desktop\Java_Exam>javac ques2.java

C:\Users\Aakash\Desktop\Java_Exam>java ques2 ====Welcome to LenaDena Bank==== Account 101 Created Successfully with balance: 1000.0

Account Number : 101 Balance : Rs1000.0

Rs1000 Money Deposited

Account Number : 101 Balance : Rs2000.0

Money Withdrawn : Rs1000

Account Number : 101 Balance : Rs1000.0

==Invalid Input==java.lang.Exception: Withdrawn Amount Rs5000 more than Balance Account Number : 101 Balance : Rs1000.0



```
class shape
{
      void draw()
              System.out.println("I draw Shapes");
      }
      void erase()
              System.out.println("I erase Shapes");
      }
}
class circle extends shape
{
      void draw()
      {
              System.out.println("I am Drawing Circle");
      }
      void erase()
              System.out.println("I am Erasing Circle");
      }
}
class triangle extends shape
      void draw()
      {
              System.out.println("I am drawing Triangle");
      }
      void erase()
              System.out.println("I am erasing Triangle");
      }
}
class square extends shape
{
      void draw()
      {
              System.out.println("I am drawing Square");
```

```
}
       void erase()
              System.out.println("I am erasing Square");
       }
}
class ques3
{
       public static void main(String args[])
       {
              circle c = new circle();
              square s = new square();
              triangle t = new triangle();
              c.draw();
              s.draw();
              t.draw();
              System.out.println();
              System.out.println("Each subclass of shape is taking method of shape
and ");
              System.out.println("And Overiding the shapes method and making
changes accordingly at Run Time");
              System.out.println();
              c.erase();
              s.erase();
              t.erase();
              System.out.println("This is Run Time Polymorphism");
       }
}
```

C:\Users\Aakash\Desktop\Java_Exam>javac ques3.java

C:\Users\Aakash\Desktop\Java_Exam>java ques3

I am Drawing Circle

I am drawing Square

I am drawing Triangle

Each subclass of shape is taking method of shape and

And Overiding the shapes method and making changes accordingly at Run Time

I am Erasing Circle

I am erasing Square

I am erasing Triangle

This is Run Time Polymorphism

C:\Users\Aakash\Desktop\Java_Exam>

01_Aakash Rohila_DBDA

```
class GrandParent
      String grandFatherName;
      String grandMotherName;
      GrandParent()
      {}
      GrandParent(String gfn , String gmn)
      {
             grandFatherName = gfn;
             grandMotherName = gmn;
             System.out.println("GrandFather Name is: " + grandFatherName);
             System.out.println("GrandMother Name is: " + grandMotherName);
      }
}
class Parent extends GrandParent
{
      String fatherName;
      String motherName;
      Parent()
      {}
      Parent(String fn , String mn , String gfn , String gmn)
             System.out.println("Father Name is: " + fn);
             System.out.println("Mother Name is: " + mn);
             Parent p2 = new Parent(gfn,gmn);
      }
      Parent(String gfn , String gmn)
      {
             GrandParent gp = new GrandParent(gfn , gmn);
      }
}
class Child extends Parent
{
      Child()
```

