JAVA WEEK-2

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SECTION: A
CODE SS: -
import java.util.Scanner;
public class TQManager
{
     public static void main(String[] args) {
       Scanner s obj = new Scanner(System.in);
          System.out.print("Enter the number of questions: ");
          int numquest = s_obj.nextInt();
          TestQuestion[] q paper = new TestQuestion[numquest];
          int i=0,opt;
          String call;
          while(i<numquest)
          {
             System.out.print("\nEnter 1 for Short Answer, 2 for
Long Answer, 3 for MCQ: ");
             opt=s obj.nextInt();
             switch(opt){
               case 1: q paper[i]=new ShortAnswer();
                   q paper[i].readQuestion();
                   i++;
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break;
                case 2: q_paper[i]=new LongAnswer();
                    q_paper[i].readQuestion();
                    i++;
                    break;
                case 3: q_paper[i]=new MCQ();
                    q_paper[i].readQuestion();
                    i++;
                    break;
                default: System.out.println("Invalid option, choose
again");
             }
           }
           System.out.println("\nQuestion Paper:-");
           for(int j=0;j<numquest;j++)</pre>
           {
             call=q paper[j].toString();
           }
     }
}
abstract class TestQuestion
{
     String question;
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```
abstract void readQuestion();
}
class ShortAnswer extends TestQuestion
{
     int numLines;
     void readQuestion()
     {
          numLines=1;
          Scanner s obj1=new Scanner(System.in);
          System.out.print("Enter question: ");
          question=s_obj1.nextLine();
     }
     public String toString()
     {
          System.out.println("Short Answer Question - "+question);
          System.out.println("Number of lines - "+numLines);
          return "Success";
     }
}
class LongAnswer extends TestQuestion
{
     int numLines;
```

```
void readQuestion()
     {
          Scanner s_obj2=new Scanner(System.in);
          System.out.print("Enter question: ");
          question=s_obj2.nextLine();
          System.out.print("Enter number of lines: ");
          numLines=s obj2.nextInt();
     public String toString()
     {
          System.out.println("Long Answer Question - "+question);
          System.out.println("Number of lines - "+numLines);
          return "Success";
     }
}
class MCQ extends TestQuestion
{
     int numChoices;
     String[] choices;
     void readQuestion()
     {
     Scanner s_obj3=new Scanner(System.in);
     System.out.print("Enter question: ");
```

```
question=s_obj3.nextLine();
     System.out.print("Enter number of choices: ");
     numChoices=s obj3.nextInt();
     s obj3.nextLine(); //as the scanner takes only the integer from
the input line but leaves \n
     choices = new String[numChoices];
     System.out.println("Enter the choices: ");
     for(int i=0;i<numChoices;i++)</pre>
     {
                 System.out.print("Choice "+(i+1)+":");
                 choices[i]=s obj3.nextLine();
     }
     public String toString()
     {
     System.out.println("MCQ - "+question);
     System.out.println("Number of choices - "+numChoices);
     System.out.println("Choices - ");
     for(int i=0;i<numChoices;i++)</pre>
     {
           System.out.println(choices[i]);
     return "Success";
     }
```

OUTPUT SS: -

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C:\Users\Adhi\Documents\1styeart\sem6\java lab\week2>java TQManager.java
Enter the number of questions: 3
Enter 1 for Short Answer, 2 for Long Answer, 3 for MCQ: 1
Enter question: What is your name?
Enter 1 for Short Answer, 2 for Long Answer, 3 for MCQ: 2
Enter question: Explain your family background.
Enter number of lines: 5
Enter 1 for Short Answer, 2 for Long Answer, 3 for MCQ: 3
Enter question: Is java a compiler or interpreter language?
Enter number of choices: 3
Enter the choices:
Choice 1:Compiler
Choice 2:Intepreter
Choice 3:Both
Question Paper
Short Answer Question - What is your name?
Number of lines - 1
Long Answer Question - Explain your family background.
Number of lines - 5
MCQ - Is java a compiler or interpreter language?
Number of choices - 3
Choices -
Compiler
Intepreter
Both
```