**HTML**

**1.Create HTML document with following formatting – Bold, Italics, Underline, Colors, Headings, Title, Font and Font Width,Background, Paragraph, Line Brakes, Horizontal Line, marquee text.**

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| **<html>**  **<head>**  **<title>Create HTML document with following formatting – Bold, Italics, Underline, Colors, Headings, Title, Font and Font Width,Background, Paragraph, Line Brakes, Horizontal Line, marquee text.</title>**  **</head>**  **<body background="bg.png">**  **<marquee>This is display of some properties and i am marque</marquee>**  **<b>I am bold</b><br>**  **<i>I am italic</i><br>**  **<u>I am Underline</u><br>**  **<font color="red">I am of red color</font><br>**  **<h1>I am h1</h1><br>**  **<h2>I am h2</h2><br>**  **<h3>I am h3</h3><br>**  **<h4>I am h4</h4><br>**  **<h5>I am h5</h5><br>**  **<h6>I am h6</h6><br>**  **<hr><!horizontal line>**  **<font size="20%"> I am font with width 20%</font>**  **<p>**  **I am a normal paragraph**  **</p>**  **</body>**  **</html>** |

**2.Create HTML document with Ordered and Unordered lists.**

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| **<html>**  **<head>**  **<title>Create HTML document with Ordered and Unordered lists.</title>**  **</head>**  **<body>**  **<h1>ordered list</h1>**  **<ol type=a start=3>**  **<li>hello</li>**  **<li>i am ordered</li>**  **</ol>**  **<hr>**  **<h1>unordered list</h1>**  **<ul>**  **<li>hello</li>**  **<li>i am unordered</li>**  **</ul>**  **</body>**  **</html>** |

**3.Create your time table using HTML tables.**

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| --- |
| **<html>**  **<head>**  **<title>**  **Create your time table using HTML tables.**  **</title>**  **</head>**  **<body>**  **<table border=1>**  **<tr>**  **<th></th>**  **<th>**  **9:00-10:00**  **</th>**  **<th>**  **10:00-11:00**  **</th>**  **</tr>**  **<tr>**  **<th bgcolor='red'>**  **Monday**  **</th>**  **<td>**  **Maths**  **</td>**  **<td>**  **Physics**  **</td>**  **</tr>**  **<tr>**  **<th bgcolor='red'>**  **Tuesday**  **</th>**  **<td colspan="2">**  **Physics**  **</td>**  **</tr>**  **<tr>**  **<th bgcolor='red'>**  **Wednesday**  **</th>**  **<td>**  **Maths**  **</td>**  **<td>**  **Physics**  **</td>**  **</tr>**  **<tr>**  **<th bgcolor='red'>**  **Thusday**  **</th>**  **<td>**  **Maths**  **</td>**  **<td>**  **Physics**  **</td>**  **</tr>**  **</table>**  **</body>**  **</html>** |

**4.** **Create a Registration / Admission or Feedback Form with Input Type, Select and Text Area, Text Box,Option/radio buttons, Check boxes, Reset and Submit buttons using HTML.**

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| **<html>**  **<head>**  **<title>**  **Create a Registration / Admission or Feedback Form with Input Type, Select and Text Area, Text Box,**  **Option/radio buttons, Check boxes, Reset and Submit buttons using HTML.**  **</title>**  **</head>**  **<body>**  **<marquee bgcolor='blue'><font size='20%' color='red'>Registration End date 23/04/2018 09:00 am</font></marquee>**  **<h1 align='center'><font color='green'>Keshav Mahavidyalya</h1>**  **<h2 align='center'>NACC Accrigated A grade</font></h2>**  **<form>**  **Name<input type='text' placeholder="Your full name" name='name'><br><br>**  **DOB<input type='date' placeholder='dd/mm/yyyy' name='date'><br><br>**  **<b><label>select course</label></b>**  **<select name='course'>**  **<option>B.Sc Aps</option>**  **<option>B.Sc(H)Physics</option>**  **<option>B.Sc(H)Chemistry</option>**  **</select><br><br>**  **<b><label>select university</label></b><br>**  **<label>DU</label><input type='radio' value='DU' name='i'><br>**  **<label>JNU</label><input type='radio' value="JNU" name='i'><br>**  **<label>JMI</label><input type='radio' value='JMI' name='i'><br>**  **<label>BHU</label><input type='radio' value='BHU' name='i'><br><br>**  **<b><label>Optionals</label></b><br>**  **<label>Maths</label><input type='checkbox' value='Maths' name='Maths'><br>**  **<label>OR</label><input type='checkbox' value="OR" name='OR'><br>**  **<label>Cs</label><input type='checkbox' value='Cs' name='Cs'><br>**  **<label>Sec</label><input type='checkbox' value='Sec' name='Sec'>**  **<br><br>**  **<textarea placeholder="Enter about yourself" rows="10" cols="30" name='about'></textarea><br><br>**  **<input type='submit'>**  **<input type='reset'>**  **</form>**  **</body>**  **</html>** |

**5.**

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| **css** |
| **body{**  **background-color:skyblue;**  **}**  **h1.h{**  **color:pink;**  **}** |
| **Html** |
| **<html>**  **<head>**  **<link href='Q5b.css' rel='stylesheet'/>**  **</head>**  **<body>**  **<center><h1 class='h'>Good to see You again</h1></center>**  **</body>**  **</html>** |

**6. Write a program to create an array of 10 integers. Accept values from the user in that array. Input another number from the user and find out how many numbers are equal to the number passed, how many are greater and how many are less than the number passed.**

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| **CODE** | **OUTPUT** |
| import java.util.Scanner;  public class Program5 {  public static void main(String[] args) {  int n,count=0,count1=0,count2=0;  Scanner s=new Scanner(System.in);  System.out.print("Enter no. of element you want in array:");  n=s.nextInt();  int a[]=new int[n];  System.out.println("Enter all the element:");  for(int i=0;i<n;i++){  a[i]=s.nextInt();  }  System.out.println("Enter the any number:");  int num=s.nextInt();  for(int k=0;k<n;k++){  if(a[k]==num){  count=count+1;  }  else if(a[k]>num){  count1=count1+1;  }  else  count2=count2+1;    }  System.out.println("Number equal to num is"+count);  System.out.println("number greater than num is"+count1);  System.out.println("number less than is"+count2);  }  } | Enter no. of element you want in array:2  Enter all the element:  12  11  Enter the any number:  3  Number equal to num is0  number greater than num is2  number less than is0 |

**7. Write java program for the following matrix operations:**

**a. Addition of two matrices**

**b. Summation of two matrices**

**c. Transpose of a matrix**

**d. Input the elements of matrices from user.**

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| **CODE** | **OUTPUT** |
| import java.util.Scanner;  interface Matrix  {  final static int M = 2, N = 2;  void readMatrix(); //Read a matrix  void displayMatrix(); //Display a matrix  void addMatrix(); //Add two matrices  void multMatrix(); // Multiply two matrices  void transposeMatrix(); //Transpose of matrix  }    class matrix1 implements Matrix  {  private int [ ][ ] a, b, c;  private int [ ][ ] read()  {  Scanner scan = new Scanner(System.in);  int [ ][ ] x = new int[M][N];  System.out.print("Enter elements of "+M+" x "+N+" matrix row-wise: ");  for(int i = 0; i < M; i++)  for(int j = 0; j < N; j++)  x[i][j] = scan.nextInt();  return x;  }  public void readMatrix()  {  a = read();  b = read();  }  private void display(int[ ][ ]x)  {  for(int i = 0; i < M; i++)  {  for(int j = 0; j < N; j++)  System.out.print(x[i][j]+" ");  System.out.println();  }  System.out.println();  }  public void displayMatrix()  {  display(a);  display(b);  display(c);  }  public void addMatrix()  {  c = new int[M][N];  for(int i = 0; i < M; i++)  for(int j = 0; j < N; j++)  c[i][j] = a[i][j] + b[i][j];  }  public void multMatrix()  {  c = new int[M][N];  for(int i = 0; i < M; i++)  for(int j = 0; j < N; j++)  for(int k = 0; k < M; k++)  c[i][j] += a[i][k] \* b[k][j];  }  public void transposeMatrix()  {  c = new int[M][N];  for(int i = 0; i < M; i++)  for(int j = 0; j < N; j++)  c[j][i] = a[i][j];  }  }  public class Programe8MP  {  public static void main(String[] args)  {  matrix1 z = new matrix1();  z.readMatrix();  z.addMatrix();  System.out.println("Addition");  z.displayMatrix();  z.multMatrix();  System.out.println("Multiplication");  z.displayMatrix();  z.transposeMatrix();  System.out.println("Transpose");  z.displayMatrix();  }  } | Enter elements of 2 x 2 matrix row-wise: 2  4  5  6  Enter elements of 2 x 2 matrix row-wise: 2  4  5  5  Addition  2 4  5 6  2 4  5 5  4 8  10 11  Multiplication  2 4  5 6  2 4  5 5  24 28  40 50  Transpose  2 4  5 6  2 4  5 5  2 5  4 6 |

**9. Write a java program that computes the area of a circle, rectangle and a Cylinder using function overloading.**

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| **CODE 1** | **OUTPUT** |
| package college;  class Figure{  double dim1;  double dim2;  Figure(double a,double b){  dim1=a;  dim2=b;  }  Figure(){  }  double area(){  System.out.println("Area for Figure is undefind.");  return 0;  }  }  class Circle extends Figure{  Circle(double r){  dim1=r;  }  double area(){  System.out.println("Inside Area for Circle.");  return dim1\*dim1\*22/7;  }  }  class Rectangle extends Figure{  Rectangle(double a,double b){  super(a,b);  }  double area(){  System.out.println("Inside Area for Rectangle.");  return dim1\*dim2;  }  }  class Cylinder extends Figure{  Cylinder(double a, double b){  super(a,b);  }  double area(){  System.out.println("Inside Area for Cylinder.");  return dim1\*dim1\*dim2\*22/7;  }  }  class Program9{  public static void main(String[] args){  Figure f=new Figure(10,10);  Circle c=new Circle(5);  Rectangle r=new Rectangle(9,5);  Cylinder t = new Cylinder(10,8);  Figure figref;  figref=c;  System.out.println("Area is "+figref.area());  figref=r;  System.out.println("Area is "+figref.area());  figref=t;  System.out.println("Area is "+figref.area());  figref=f;  System.out.println("Area is "+figref.area());  }  } | Inside Area for Circle.  Area is 78.57142857142857  Inside Area for Rectangle.  Area is 45.0  Inside Area for Cylinder.  Area is 2514.285714285714  Area for Figure is undefind.  Area is 0.0 |
| **CODE 2** | **OUTPUT** |
| class Area {  void area(double x){  double z = x\*x\*22/7;  System.out.println("The area of circle is "+z+" sq unit");  }  void area(double x,double y){  System.out.println("The area of Rectangle is "+x\*y+" sq unit");  }  void area(float a,float b){  double c=a\*a\*b\*22/7;  System.out.println("The area of cylinder is "+c+" sq unit");  }  }  class Program9a{  public static void main(String[] args) {  Area ob=new Area();  ob.area(5);  ob.area(11,12);  ob.area(6,8);  }  } | The area of circle is 78.57142857142857 sq unit  The area of cylinder is 4563.4287109375 sq unit  The area of cylinder is 905.1428833007812 sq unit |
| **CODE 3** | **OUTPUT** |
| import java.util.Scanner;  public class Program9b {  public static void main(String[] args) {  Scanner sc=new Scanner(System.in);  System.out.println("Enter your choice");  System.out.println("1.Area of circle");  System.out.println("2.Area of Rectengle");  System.out.println("3.Area of cylinder");  int n=sc.nextInt();  switch(n){  case 1:  System.out.println("Enter the Radius ");  double r=sc.nextInt();  double z=r\*r\*22/7;  System.out.println("Area of circle is "+z+" sq unit");  case 2:  System.out.println("Enter the width");  int x=sc.nextInt();  System.out.println("Enter the length");  int y=sc.nextInt();  System.out.println("Area of Rectengle is "+x\*y+" sq unit");  case 3:  System.out.println("Enter the Radius ");  int a=sc.nextInt();  System.out.println("Enter the hight");  int b=sc.nextByte();  double c=a\*a\*b\*22/7;  System.out.println("Area of Cylinder "+c+" sq unit");  default:  System.out.println("Invalid Input");  }  } | Enter your choice  1.Area of circle  2.Area of Rectengle  3.Area of cylinder  1  Enter the Radius  12  Area of circle is 452.57142857142856 sq unit  Enter the width  14  Enter the length  15  Area of Rectengle is 210 sq unit  Enter the Radius  24  Enter the hight  20  Area of Cylinder 36205.0 sq unit  Invalid Input |

**8.Write a Java for the implementation of Multiple inheritance using interfaces to calculate the area of a rectangle and triangle.**

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| **CODE** | **OUTPUT** |
| package JavaPrograms1;  import java.util.Scanner;  interface Rectangle {  public void rectangarea(double l, double b);  }  interface Triangle {  public void triangarea(double b, double h);  }  class ImplementArea implements Rectangle, Triangle {  public void rectangarea(double l, double b) {  System.out.println("Area of Rectangle is:" + (l \* b));  }  public void triangarea(double b, double h) {  System.out.println("The area of Triangle is:" + (0.5 \* b \* h));  }  }  class MultipleInheritance extends ImplementArea {  public static void main(String[] args) {  System.out.println("THIS PROGRAM FINDS THE AREA OF RECTANGLE AND TRIANGLE UNDER INTERFACES");  Scanner s = new Scanner(System.in);  System.out.println("Press.....");  System.out.println("1. For Rectangle");  System.out.println("2. For Triangle");  int opt = s.nextInt();  float dim1, dim2;  ImplementArea IA=new ImplementArea();  switch (opt) {  case 1:  System.out.println("Enter Length:");  dim1 = s.nextFloat();  System.out.println("Enter Breadth");  dim2 = s.nextFloat();  IA.rectangarea(dim1, dim2);  break;  case 2:  System.out.println("Enter Base:");  dim1 = s.nextFloat();  System.out.println("Enter Height:");  dim2 = s.nextFloat();  IA.triangarea(dim1, dim2);  break;  default:  System.out.println("Wrong Choice!!!");  }  }  } | run:  THIS PROGRAM FINDS THE AREA OF RECTANGLE AND TRIANGLE UNDER INTERFACES  Press.....  1. For Rectangle  2. For Triangle  1  Enter Length:  21  Enter Breadth  12  Area of Rectangle is:252.0  1. For Rectangle  2. For Triangle  2  Enter Base:  14  Enter Height:  15  The area of Triangle is:105.0 |

**9.bank aaa**

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| **CODE** | **OUTPUT** |
| package banka;  import banka.Bank;  import java.util.ArrayList;  import java.util.Scanner;  class BankAccount {  private final int accountNumber;  private double balance;  public BankAccount(int anAccountNumber, double initialBalance) {  accountNumber = anAccountNumber;  balance = initialBalance;  }  public int getAccountNumber() {  return accountNumber;  }  public void deposit(double amount) {  double newBalance = balance + amount;  balance = newBalance;  }  public void withdraw(double amount) {  double newBalance = balance - amount;  balance = newBalance;  }  public double getBalance() {  return balance;  }  }  class Bank {  private final ArrayList<BankAccount> accounts;  public Bank() {  accounts = new ArrayList<>();  }  public void addAccount(BankAccount a) {  accounts.add(a);  }  public double getTotalBalance() {  double total = 0;  for (BankAccount a : accounts) {  total = total + a.getBalance();  }  return total;  }  public int countBalancesAtLeast(double atLeast) {  int matches = 0;  for (BankAccount a : accounts) {  if (a.getBalance() >= atLeast) {  matches++;  }  }  return matches;  }  public BankAccount find(int accountNumber) {  for (BankAccount a : accounts) {  if (a.getAccountNumber() == accountNumber) {  return a;  }  }  return null;  }  public BankAccount getMaximum() {  if (accounts.size() == 0) {  return null;  }  BankAccount largestYet = accounts.get(0);  for (int i = 1; i < accounts.size(); i++) {  BankAccount a = accounts.get(i);  if (a.getBalance() > largestYet.getBalance()) {  largestYet = a;  }  }  return largestYet;  }  public BankAccount getMinimum() {  if (accounts.size() == 0) {  return null;  }  BankAccount leastYet = accounts.get(0);  for (int i = 1; i < accounts.size(); i++) {  BankAccount a = accounts.get(i);  if (a.getBalance() < leastYet.getBalance()) {  leastYet = a;  }  }  return leastYet;  }  } |  |
| package banka;  import banka.Bank;  import java.util.ArrayList;  import java.util.Scanner;  public class BankTester  {  public static void main(String[] args) {  Bank Account = new Bank();  Scanner in = new Scanner(System.in);  System.out.println("WELCOME BANKING SYSTEM.");  char choice = 'y';  do {  System.out.println("Choose from the following.");  System.out.println("1. Add account in bank.");  System.out.println("2. Deposit in an account.");  System.out.println("3. Withdraw from an account.");  System.out.println("4. Get total balance in the bank.");  System.out.println("5. Get account number with max and min balance.");  System.out.println("6. Find an account given an account no.");  System.out.println("7. Count the no. of accounts having atleast specific balance.");  System.out.print("Enter your choice: ");  int ch = in.nextInt();  switch (ch) {  case 1:  System.out.print("Enter an account number: ");  int accNo = in.nextInt();  System.out.print("Enter the opening balance: ");  double balanc = in.nextDouble();  BankAccount a = new BankAccount(accNo, balanc);  Account.addAccount(a);  System.out.println("Account created successfully.");  System.out.println("Welcome to Bank");  System.out.println("Account No: " + a.getAccountNumber()+"\tBalance: " + a.getBalance());  break;  case 2:  System.out.print("Enter the account number: ");  int acc = in.nextInt();  a = Account.find(acc);  if (a == null) {  System.out.println("The requested account does not exist.");  } else {  System.out.print("Enter the amount to be deposited: ");  double bal = in.nextDouble();  a.deposit(bal);  System.out.println("The updated balance of the account is: " + a.getBalance());  }  break;  case 3:  System.out.print("Enter the account number: ");  acc = in.nextInt();  a = Account.find(acc);  if (a == null) {  System.out.println("The requested account does not exist.");  } else {  System.out.print("Enter the amount to be withdrawn: ");  double bal = in.nextDouble();  a.withdraw(bal);  System.out.println("The updated balance of the account is: " + a.getBalance());  }  break;  case 4:  System.out.println("The total balance in the bank is: " + Account.getTotalBalance());  break;  case 5:  System.out.print("The account with maximum balance is: " + Account.getMaximum().getBalance());  System.out.println("\nThe account with least balance is: " + Account.getMinimum().getBalance());  break;  case 6:  System.out.print("Enter an account no: ");  acc = in.nextInt();  a = Account.find(acc);  if (a == null) {  System.out.println("The srearched account does not exist.");  } else {  System.out.print("Account exists.");  System.out.println("Account No: "+ a.getAccountNumber());  System.out.println("\nBalance: " + a.getBalance());  }  break;  case 7:  System.out.print("Enter the thresold balance: ");  double threshold = in.nextDouble();  int c = Account.countBalancesAtLeast(threshold);  System.out.println("No. of account having minimum balance of " + threshold + " are: " + c);  break;  default:  System.out.println("Wrong choice!");  }  System.out.println("Press 'Y' to continue, any other key to exit.");  choice=in.next().charAt(0);  } while (choice == 'y' || choice == 'Y');  }  } |  |

**10. Write a program that reads two integer numbers for the variables a and b. If any other character except number (0-9) is entered then the error is caught by NumberFormatException object. After that ex.getMessage() prints the information about the error occurring causes.**

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| **CODE** | **OUTPUT** |
| package JavaPrograms;  import java.io.\*;  import java.util.\*;  public class NumFormatExc {  public static void main(String[] args) {  Scanner sc = new Scanner(System.in);  int a, b;  String num1, num2;  System.out.println("Enter a number : ");  num1 = sc.next();  System.out.println("Enter another number : ");  num2 = sc.next();  try {  a = Integer.parseInt(num1);  b = Integer.parseInt(num2);  System.out.println("The numbers you entered are " + a + " and " + b);  } catch (NumberFormatException ex) {  System.out.println("You didn't enter a valid number (" + ex.getMessage() + ")");  }  }  } | THE FOLLOWING PROGRAM READS TWO INTEGER  NUMBERS FOR THE VARIABLES A AND B.  IF ANY OTHER CHARACTER EXCEPT NUMBER (0-9) IS  ENTERED THEN THE ERROR IS CAUGHT BY  NumberFormatexception OBJECT.  AFTER THAT ex.getMessage() PRINTS THE  INFORMATION ABOUT THE ERROR OCCURRING  CAUSES.  Enter a number : 56  Enter another number : asd  You didn&#39;t enter a valid number (For input string: &quot;asd&quot;)  BUILD SUCCESSFUL (total time: 5 seconds) |

**11. Create a class called Fraction that can be used to represent the ratio of two integers. Include appropriate constructors and methods. If the denominator becomes zero, throw and handle an exception.**

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| **CODE** | **OUTPUT** |
| package JavaPrograms;  import java.util.Scanner;  public class Fraction {  int a, b;  Fraction(int num1, int num2) {  a = num1;  b = num2;  try {  if (b == 0) {  throw new ArithmeticException("Can't find ratio when second number is zero.");  }  } catch (ArithmeticException e) {  System.out.println("Division by zero error. " + e.getMessage());  System.exit(0);  }  }  void ratio() {  int min = a, r1 = a, r2 = b;  if (b < a) {  min = b;  }  for (int i = min; i > 0; i--) {  if (a % i == 0 && b % i == 0) {  r1 = a / i;  r2 = b / i;  break;  }  }  System.out.println("a:b is " + r1 + ":" + r2);  }  public static void main(String[] args) {  Scanner sc = new Scanner(System.in);  System.out.print("Enter a number : ");  int x = sc.nextInt();  System.out.print("Enter another number : ");  int y = sc.nextInt();  Fraction obj = new Fraction(x, y);  obj.ratio();  }  } | THE FOLLOWING PROGRAM REPRESENTS THE RATIO OF  TWO INTEGERS. IF THE DENOMINATOR BECOMES  ZERO, IT THROW AND HANDLES AN EXCEPTION.  Enter a number : 45  Enter another number : 0  Division by zero error. Can&#39;t find ratio when second  number is zero.  BUILD SUCCESSFUL (total time: 4 seconds) |

**12. WAP to find the largest of n natural numbers.**

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| **CODE** | **OUTPUT** |
| public class program12 {  public static void main(String args[]){  shape sh;//sh of type shape  sh=new shape(2,3);  sh.showcorrd();  sh=new Rect(2,3);//referenced as object Rect  sh.showcorrd();  }  }  class Rect extends shape{  int length,breadth;  Rect(int length,int breadth){  super(0,0);  this.length=length;  this.breadth=breadth;  }  public void showcorrd(){  System.out.println("length = "+this.length);  System.out.println("bradeth = "+this.breadth);  }  }  class shape{  int x,y;  shape(int x,int y){  this.x=x;  this.y=y;  }  public void getcoord(int x,int y){}  public void showcorrd(){  System.out.println("x = "+this.x);  System.out.println("y = "+this.y);  }  } |  |

**13.** **!Create a student registration form. Create functions to perform the following checks:**

**a. Roll number is a 7-digit numeric value**

**b. Name should be an alphabetical value(String)**

**c. Non-empty fields like DOB**

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| **<html>**  **<head>**  **<title>Student Registration</title>**  **<script type="text/javascript">**  **function checkName(event)**  **{**  **var a=event.keyCode;**  **var x=document.getElementById("2").value.length;**  **if(!((a>64 && a<91) || (a==16)))**  **{**  **document.getElementById("2").value=document.getElementById("2").value.slice(0,x-1);**  **}**  **}**    **function checkRoll(event)**  **{**  **var a=event.keyCode;**  **var x=document.getElementById("1").value.length;**  **if(x>7)**  **{**  **document.getElementById("1").value=document.getElementById("1").value.slice(0,x-1);**  **}**  **}**  **function checkDate()**  **{**  **var d=document.getElementById("3").value;**  **if(d=="") alert("Please select a date");**  **else**  **{**  **var r = document.getElementById("1").value;**  **var n = document.getElementById("2").value;**  **var d = document.getElementById("3").value;**  **var dob = new Date(document.getElementById("3").value);**  **var days = new Array("Sunday","Monday","Tuesday","Wednesday","Thursday","Friday","Saturday");**  **var months = new Array("January","February","March","April","May","June","July","August","September","October","November","December");**  **var day = dob.getDay();**  **var month = dob.getMonth();**  **var dobstr = days[day] + " " + months[month] + " " + dob.getDate() + ", " + dob.getFullYear();**  **if(r != "" && n != "" && d != "")**  **{**  **document.write("Name : " + document.getElementById("2").value + "<br>Roll no. : " + document.getElementById("1").value + "<br>Date : " + dobstr);**  **}**  **else if(document.getElementById("1").value == "")**  **{**  **alert("Roll no. field empty");**  **document.getElementById("1").focus();**  **}**  **else if(document.getElementById("2").value == "")**  **{**  **alert("Name field empty");**  **document.getElementById("2").focus();**  **}**  **else if( d == "" )**  **{**  **alert("Date field empty");**  **document.getElementById("3").focus();**  **}**  **}**  **}**  **</script>**  **</head>**  **<body>**  **<marquee bgcolor='blue'><font size='20%' color='red'>Registration End date 23/04/2018 09:00 am</font></marquee>**  **<h1 align='center'><font color='green'>Keshav Mahavidayalaya</h1>**  **<h2 align='center'>NACC Accrigated A grade</font></h2>**  **<form>**  **Roll Number : <input type = "number" id="1" onkeyup="checkRoll(event)"><br><br>**  **Name : <input type="text" id="2" onkeyup="checkName(event)"><br><br>**  **DOB : <input type="date" id="3"><br><br>**  **<input type="button" value="SUBMIT" onclick="checkDate()">**  **<input type='reset'>**  **</form>**  **</body>**  **</html>** |

**14. Implement a static password protection**

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| **<html>**  **<head>**  **<title>Static Password Protection</title>**  **<script>**  **function check()**  **{**  **var user = document.getElementById("Username").value;**  **var pass = document.getElementById("Password").value;**    **if (user=="admin" && pass=="password")**  **{ alert("Successful Login"); }**  **else**  **{ alert("Please Try Again"); }**  **}**  **</script>**  **</head>**  **<body>**  **<marquee bgcolor='blue'><font size='20%' color='red'>Registration End date 23/04/2018 09:00 am</font></marquee>**  **<h1 align='center'><font color='green'>Keshav Mahavidayalaya</h1>**  **<h2 align='center'>NACC Accrigated A grade</font></h2>**  **<form>**  **Enter Username : <input type="text" id="Username"> <br><br>**  **Enter Password : <input type="password" id="Password"> <br><br>**  **<input type="button" value="Submit" onClick="check()">**  **</form>**  **</body>**  **</html>** |

15. Write a java script a. To change the colour of text using SetTimeOut() b. To move an image across screen using SetInterval()

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| **<html>**  **<head>**  **<title>TODO supply a title</title>**  **<meta charset="UTF-8">**  **<meta name="viewport" content="width=device-width, initial-scale=1.0">**  **</head>**  **<script>**  **onload = setTimeout( function() { document.getElementById("txt").style.color = "Red"; }, 4000);**  **</script>**  **</head>**    **<body>**  **<p id="txt"> Changing Text Color</p>**  **<hr>**  **</body>**  **<script>**  **var x = 0;**  **setInterval(Run,5);**    **function Run(){**  **img1 = document.getElementById("i1");**  **if (x < window.screen.width) x += 1;**  **else x = 0;**  **img1.style.left = x + "px";**  **}**  **</script>**  **</head>**    **<body style="overflow:hidden">**  **<img id="i1" src = "download.jpg" style="position:absolute">**  **</body>**  **</html>** |

16. Create a table 'Student' and ‘Teacher’ in 'College' database and insert two rows in this newly created table using JDBC API and do the following: a. Update an already created table 'Teacher' in 'College' database by updating a teacher's name, with "Dr." appended before the name, whose name is "Rita". b. Repeat the same thing for all the teachers using PreparedStatement. c. Delete the student with ID=3 from 'Student' database. d. Insert two students to the ResultSet returned by the query which selects all students with FirstName="Ayush". The database must also get updated along with ResultSet.

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| **package jdbc;**  **import java.sql.\*;**  **public class JDBCApplication {**  **public static void main(String[] args) throws SQLException {**  **String url = "jdbc:mysql://localhost/college";**  **String userID = "root";**  **String password = "root";**  **String printrow;**  **Statement DataRequest;**  **ResultSet Results;**  **Connection Db = null;**  **int noOfRows;**  **try {**  **Class.forName("java.sql.Driver");**  **Db = DriverManager.getConnection(url, userID, password);**  **} catch (ClassNotFoundException error) {**  **System.err.println("Unable to load the JDBC bridge." + error);**  **System.exit(1);**  **} catch (SQLException error) {**  **System.err.println("Cannot connect to the database." + error);**  **System.exit(2);**  **}**  **try {**  **//Ans 16.(a) starts here.**  **String query1 = "UPDATE Teacher SET FirstName = CONCAT ('Dr.', FirstName) WHERE FirstName = 'Rajat'";**  **DataRequest = Db.createStatement();**  **DataRequest.executeUpdate(query1); //Ans 16.(a) ends here.**  **//Ans 16.(b) starts here.**  **query1 = "UPDATE Teacher SET FirstName = CONCAT ('Dr.', FirstName) WHERE FirstName = ? AND FirstName NOT LIKE 'Dr.%'";**  **PreparedStatement pstatement = Db.prepareStatement(query1);**  **String query2 = "SELECT FirstName FROM Teacher";**  **Results = DataRequest.executeQuery(query2);**  **while (Results.next()) {**  **pstatement.setString(1, Results.getString(1));**  **pstatement.executeUpdate();**  **}**  **pstatement.close(); //Ans 16.(b) ends here.**  **query2 = "SELECT \* FROM Teacher";**  **Results = DataRequest.executeQuery(query2);**  **System.out.println("ID First Name Last Name");**  **while (Results.next()) {**  **printrow = Results.getString(1) + " " + Results.getString(2) + " " + Results.getString(3);**  **System.out.println(printrow);**  **}**  **//Ans 16.(c) starts here.**  **query2 = "DELETE FROM Student WHERE ID = 11732";**  **DataRequest.executeUpdate(query2); //Ans 16.(c) ends here.**  **} catch (SQLException error) {**  **System.err.println("Data display error." + error);**  **System.exit(4);**  **}**  **try {**  **//Ans 16.(d) starts here.**  **DataRequest = Db.createStatement(ResultSet.TYPE\_SCROLL\_SENSITIVE, ResultSet.CONCUR\_UPDATABLE);**  **String query = "SELECT \* FROM Student WHERE FirstName = 'Shubham'";**  **Results = DataRequest.executeQuery(query);**  **Results.moveToInsertRow();**  **Results.updateInt(1, 11700);**  **Results.updateString(2, "Tom");**  **Results.updateString(3, "Smith");**  **Results.insertRow();**  **Results.updateInt(1, 11701);**  **Results.updateString(2, "John");**  **Results.updateString(3, "Smith");**  **Results.insertRow();**  **//Ans 16.(d) ends here.**  **System.out.println("\nID First Name Last Name");**  **while (Results.next()) {**  **printrow = Results.getString(1) + " " + Results.getString(2) + " " + Results.getString(3);**  **System.out.println(printrow);**  **}**  **//Ans 17 starts here.**  **query = "{ CALL count\_row (?)}";**  **CallableStatement cstatement = Db.prepareCall(query);**  **cstatement.registerOutParameter(1, Types.INTEGER);**  **cstatement.execute();**  **noOfRows = cstatement.getInt(1);**  **System.out.println("\nThe no. of rows in the 'Student' table are " + noOfRows);**  **cstatement.close();**  **//Ans 17 ends here.**  **DataRequest.close();**  **} catch (SQLException error) {**  **System.err.println("SQL error. The rollno already exists.");**  **System.exit(3);**  **}**  **Db.close();**  **}**  **}** |