**Core Java Final MiniProject…..**

import java.util.Scanner;

import java.lang.Math;

import java.lang.String;

import java.awt.\*;

import java.awt.event.\*;

import java.applet.Applet;

class SubFunctions

{

Scanner S1=new Scanner(System.in);

void Minimum()

{

int num1,num2;

System.out.println("Enter your Number:");

num1=S1.nextInt();

num2=S1.nextInt();

System.out.println("Minimum value="+Math.min(num1,num2));

}

void Maximum()

{

int num1,num2;

System.out.println("Enter your Number:");

num1=S1.nextInt();

num2=S1.nextInt();

System.out.println("Maximum value="+Math.max(num1,num2));

}

void Square()

{

int num1;

System.out.println("Enter your Number:");

num1=S1.nextInt();

System.out.println("Square Root value="+Math.sqrt(num1));

}

void Power()

{

int num1;

System.out.println("Enter your Number:");

num1=S1.nextInt();

System.out.println("Enter power:");

int power=S1.nextInt();

System.out.println("Power of given number="+Math.pow(num1,power));

}

void Absolute()

{

int num1;

System.out.println("Enter your Number:");

num1=S1.nextInt();

System.out.println("Absolute value="+Math.abs(num1));

}

void Exponent()

{

double num1;

System.out.println("Enter your Number:");

num1=S1.nextFloat();

System.out.println("Exponent value="+Math.exp(num1));

}

void Round()

{

double num1;

System.out.println("Enter your Number:");

num1=S1.nextFloat();

System.out.println("Round value="+Math.round(num1));

}

void Book()

{

String author,title,publisher;

int price;

String stock\_pos;

System.out.println("Enter Book Title:");

title=S1.next();

System.out.println("Enter Author Name:");

author=S1.next();

System.out.println("Enter Publisher Name:");

publisher=S1.next();

System.out.println("Enter Price:");

price=S1.nextInt();

System.out.println("Enter stock Position:");

stock\_pos=S1.next();

System.out.println("Book Title:"+title);

System.out.println("Book Author:"+author);

System.out.println("Book Publisher:"+publisher);

System.out.println("Book Price:"+price);

System.out.println("Stock Position:"+stock\_pos);

}

void RectangleArea()

{

int length,breadth;

System.out.println("Enter Length:");

length=S1.nextInt();

System.out.println("Enter breadth:");

breadth=S1.nextInt();

int area=(length\*breadth);

System.out.println("Area of Rectangle:"+area);

}

void ResultGreets()

{

System.out.println("Enter Your Marks in Integer Form:");

int marks=S1.nextInt();

switch(marks/10)

{

case 10:

case 9:

case 8:

System.out.println("Excellent");

break;

case 7:

System.out.println("Very Good");

break;

case 6:

System.out.println("Good");

break;

case 5:

System.out.println("Work hard");

break;

case 4:

System.out.println("poor");

break;

case 3:

case 2:

case 1:

System.out.println("Very poor");

break; }

}

}

class mainClass

{

public static void main(String args[])

{

int choice;

SubFunctions S2=new SubFunctions();

Scanner S1=new Scanner(System.in);

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("1.Find Minimum Number.");

System.out.println("2.Find Maximum Number.");

System.out.println("3.Find Square root of given Number.");

System.out.println("4.Find Power of given Number.");

System.out.println("5.Find Absolute value of given Number.");

System.out.println("6.Find Exponent of Number.");

System.out.println("7.Find Round value of Number.");

System.out.println("8.Fill your Book Information.");

System.out.println("9.Calculate Rectangle Area.");

System.out.println("10.Display Greets according to Result.");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("Enter your choice:");

choice=S1.nextInt();

switch(choice)

{

case 1:

S2.Minimum();

break;

case 2:

S2.Maximum();

break;

case 3:

S2.Square();

break;

case 4:

S2.Power();

break;

case 5:

S2.Absolute();

break;

case 6:

S2.Exponent();

break;

case 7:

S2.Round();

break;

case 8:

S2.Book();

break;

case 9:

S2.RectangleArea();

break;

case 10:

S2.ResultGreets();

break;

}

}

}

**Output:**

C:\java miniproject>javac mainClass.java

C:\java miniproject>java mainClass

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.Find Minimum Number.

2.Find Maximum Number.

3.Find Square root of given Number.

4.Find Power of given Number.

5.Find Absolute value of given Number.

6.Find Exponent of Number.

7.Find Round value of Number.

8.Fill your Book Information.

9.Calculate Rectangle Area.

10.Display Greets according to Result.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*Enter your choice: 1

Enter your Number:20 50

Minimum value=20

\*\*\*\*\*Enter your choice:2

Enter your Number:35 87

Maximum value=87

\*\*\*\*\*Enter your choice:3

Enter your Number:9

Square Root value=3.0

\*\*\*\*\*Enter your choice:4

Enter your Number:4

Enter power:3

Power of given number=64.0

\*\*\*\*\*Enter your choice:5

Enter your Number:-345

Absolute value=345

\*\*\*\*\*Enter your choice:6

Enter your Number:342.455453

Exponent value=5.327332121549343E148

\*\*\*\*\*Enter your choice:7

Enter your Number:342.7

Round value=343

\*\*\*\*\*Enter your choice:8

Enter Book Title:Java Programming

Enter Author Name:Sarita S.Gaikwad

Enter Publisher Name:Tech\_Max

Enter Price:300

Enter stock Position:Pune

Book Title:Java Programming

Book Author: Sarita S.Gaikwad

Book Publisher:Tech\_Max

Book Price:300

Stock Position:Pune

\*\*\*\*\*Enter your choice:9

Enter Length:34

Enter breadth:2

Area of Rectangle:68

\*\*\*\*\*Enter your choice:10

Enter Your Marks in Integer Form:93

Excellent

**\*\*\*\*\*\*\*\*\*\* Thank You \*\*\*\*\*\*\*\*\*\*\*\*\*\*\***