Experiment - 1.3

Name: K. Prudhvi Sai Reddy

Section: 21AIML-7/A

Subject: JAVA

UIO:- 21BC56286

Oate: 25-09-2022

Screster: 3rd.

Aim: Write a program in java for find AXB where A is a matrix of 3x2 and B is a matrix of 2x3.

Program code:

Public class matrix multiplication L

Public Static void main (String args[]) ¿

int a[][]= {{1,13, {2,23, {3,333;

int b[][] - { {1,1,13, {2,2,233;

int ceded = new int[3][3];

for (int i=0; i<3; i++) {

for (int i=0; j<3; j++){

:0=[i][i]])

for (int k=0; k<2; k++)

C[i][i] += a[i][k]*b[k][i];

3

System. out-print (clidlid+"");

System. Out. println();

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Out put:

learning outcomes:

1) Approach the programming task using technique learnt and corite psuedocode.

2) Choose the right data representation tornat based on the requirement of the problem.

Escperiment - 21

Jame: K. Prydhui Sai Reddy.

Section: 21AIM2-7/A

Subject: JAVA

UTO: 21BC56286.

Date: 25-09-2022

Semester: 3rd.

tim:- write a program in Java with class Rectangle with the data hields, width, length, area and color The length, width and area are of double type and colour is of String type. The methods tree set-length(), set-width(), set-color() and hind-area(). Greate two object of lectangle and compare their area and color if area and color same for the objects then display "matching lectangle" otherwise display "non-matching lectangle".

code:
import java util Scanner;
day sect;
double coidth, length, area;
String color;
Scanner s = new Scanner (Systemin);
Reut()
& system out println ("Enter the length:");
length = S. next();
System out println ("Enter the breadth:");
width= s. next double();
System out println ("Enter the colour = ");
color= s. next();
area = length + bxewidth;
system out println ("Area of rectangle: "+ area);

```
Class demo
   Public static void main (string argn[])
       System.out-println ("First rectangle:");
            Rect 11 = new Ject ();
            Rect 82 = new rect ();
     · If (8, area == 82-area bl o, color = 82 color)-
          System. out println ("matching rectangle");
          System. out. println ("Non matching rectangle");
          elge
 BULP41:
  First Recrangle.
  Enter length = 19.22
  Enter width = 19.22
  Enter color - Blue
 Arco of the rewongle: 124.884
  Second Rectangle
   Enter length = 19.82
    Enter width = 19.33
   Enter color = Blue
    area of rectongle = 124.993
    Non-matching rectangly.
 learning outcomes:
i) rearnt about tunctions
2) learnt about the clay
3) learnt to implement the functiony.
```

Experiment: 2.2

Name: Prudhui Sai Reddy UID: 21BCS6286 Class: 21 AIMI-7/A Dare: 25-9-22 Subject: JAVA Semoster: 3rd Aim: write a program in java which implement interface student which has two methods. Display-Grade and Attendance for PG-Students and UG-Studenk code:interface Students void display_Grade (); void display - attend (): Class PG_Students implement Student String name, grade; int mi, mz, mz, attendance, total; PG-Student (String name, intmi, intmz, int mz, int mz, int attendance) this name = name; this mi = mi; this m2 = m2; this. m3 = m3; this attendance = attendance; void display() & system. out println ("name is "+ mame); System · out · println (" morty are "+ m1+" "+ m2+" "+ m3);

```
Public void display-attend()
 {
    System. Out println ("the attendance is " + attendance);
Public void display-grade () {
   total = mitmetm3;
  1+ (total >250)
     d grade = " A" & 9
  else if (total < 250% & total ≥ 200)
    & grade = "B"; }
   e180 if (+0+a1 < 200 &8 +0+a1 ≥100)
       grade = " c"; 3
    eise
      h grade = "P" ; 4
  System. out print ("the grade is " + grade);
class uG-Students implement student
      String rame, grade;
      int on, one, m3, attendance, total;
   UCI- Student (String name, int m1 int m2, int m3 int attendance).
       this-nome = nome;
      this mi = mi;
      this me = me;
       this m3 = m3;
      this attendance = attendance;
```

```
void display()
  System. out println ("Name is "+ name):
  System. out println (" morks are "+m1+" "+ m2+" "+m3);
Public void display-attendo
   System. out println ("The attendance is "+ attendance);
 Public void display-grade ()
 1 total = m1+m2+m3;
  if C+O+a1 < 300 && +O+a1 > 250)
     & grade = "A"; 4
  esseif (total < 250 El total > 200)
     & grade = "B"; }
   clse if Crotal = 200 de total = 100)
       c grade = " ("; }
    life
        grade = "0";
 System. out print ( "the grade is " + grade);
Class Student Demo 6
  Public Static void main (String [] arge).
  Pg_Student Pg=new PCr_Student ("Prudhvi", 100, 99, 99, 95);
   Pg. Display ();
    Pg. Display-attend();
    Pg. display-grade ();
 UCI_Student Ug = 1000 UCI_Student ("Sai", 100, 100, 100, 90);
     ug.display ();
     Ug display - atten ();
     Ug. display-grade();
```

Output:

Name is Paradhui

morks are 100 99 99

artendence is 95

The grade is A

Name is Sai

The marks are 100 100 100

attendance is 90

The grade is A

learning outcomes:

- Diearnt how to use tunctions
- 2) learnt different tunctions and operations.
- 3) Displayed the output.