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Matara batch june intake

Semester2

Lab Sheet1-Week-01

1)

#include <stdio.h>

int main(void)

{

int mark1,mark2,mark3;

float total = 0,average = 0;

int i;

for(i=1;i<=3;i++)

{

printf("\nEnter module 1 marks:");

scanf("%d",&mark1);

printf("Enter module 2 marks:");

scanf("%d",&mark2);

printf("Enter module 3 marks:");

scanf("%d",&mark3);

total = mark1 + mark2 + mark3;

average = total/3;

printf("\nAverage = %.2f",average);

printf("\n");

}

for(i=1;i<=3;i++)

{

printf("\nStudent %d",i);

if(average >=60)

{

printf("\nYou are selected to SE");

}

else

{

printf("\nNot selected");

}

}

}

2)

#include<stdio.h>

int Square(int x);

int Cube(int x);

int main(void)

{

int x=1;

for(x=1;x<=10;x++)

{

printf("\nSquare : %d",Square( x));

printf("\nCube : %d",Cube( x));

}

return 0;

}

int Square(int x)

{

return x\*x;

}

int Cube(int x)

{

return x\*x\*x;

}

3)1.

#include <stdio.h>

float area(float leangth, float width);

int main()

{

float answer,leangth,width;

printf("Please enter the leangth:");

scanf("%f",&leangth);

printf("Please enter the width:");

scanf("%f",&width);

answer = area(leangth, width);

printf("Area = %.2f",answer);

}

float area(float leangth, float width)

{

float answer = leangth \* width ;

return answer;

}

3)2.

#include <stdio.h>

float area1(float leangth1, float width1);

float area2(float leangth2, float width2);

int main()

{

float answer1,leangth1,width1;

float answer2,leangth2,width2;

float fullArea;

printf("Please enter the leangth 1:");

scanf("%f",&leangth1);

printf("Please enter the width 1:");

scanf("%f",&width1);

printf("\nPlease enter the leangth 2:");

scanf("%f",&leangth2);

printf("Please enter the width 2:");

scanf("%f",&width2);

answer1 = area1(leangth1, width1);

answer2 = area2(leangth2, width2);

fullArea = answer1 - answer2;

printf("\n\n Area = %.2f",fullArea);

}

float area1(float leangth1, float width1)

{

float answer1 = leangth1 \* width1 ;

return answer1;

}

float area2(float leangth2, float width2)

{

float answer2 = leangth2 \* width2 ;

return answer2;

}

4)

#include<stdio.h>

float findCA\_1(int mark1);

float findCA\_2(int mark2);

int main(void)

{

int mark1,mark2;

float CA\_marks1,CA\_marks2;

int i;

for(i=1;i<=3;i++)

{

printf("\nEnter student %d mark1 :",i);

scanf("%d",&mark1);

printf("Enter student %d mark2 :",i);

scanf("%d",&mark2);

//function calling

CA\_marks1=findCA\_1( mark1);

CA\_marks2=findCA\_2( mark2);

}

printf("\n\nStudent\tMarks1\t Marks2\tCA1\tCA2");

for(i=1;i<=3;i++)

{

printf("\n%d\t%d\t %d\t%.2f\t%.2f",i,mark1,mark2,CA\_marks1,CA\_marks2);

}

return 0;

}

float findCA\_1(int mark1)

{

float CA\_marks1;

CA\_marks1 = mark1\*20.00/100.00;

return CA\_marks1;

}

float findCA\_2(int mark2)

{

float CA\_marks2;

CA\_marks2 = mark2\*30.00/100.00;

return CA\_marks2;

}