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***Lab 1***

***Week 1***

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Exercise 1

#include <stdio.h>

int main()

{

float sub1,sub2,sub3;

int num,x;

float total, average;

//Input marks of three subjects

for (x = 1; x <= 3; ++x) {

printf("Enter marks of three subjects: \n");

scanf("%f%f%f", &sub1, &sub2, &sub3);

// Calculate total, average

total = sub1+sub2+sub3;

average = total / 3.0;

if(average>60.0){

printf("You selected to Software Engineering degree program.\n");}

else{

printf("not eligible for software Engineering program");}

//print results

printf("Total marks = %.2f\n", total);

printf("Average marks = %.2f\n", average);

num += x;}

return 0;

}

Exercise 2

#include<stdio.h>

int Square(int x);

int Cube(int x);

int main(void)

{

int x=1;

printf("Square \t Cube\n");

//printf("Square\t\n");

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

{

printf("%d\t %d\t\n",Square( x),Cube( x));

// printf("%d\n",Cube( x));

}

return 0;

}

int Square(int x)

{

while (x<=10)

{

return x\*x;

}

x++;

}

int Cube(int x)

{

while(x<=10)

{

return x\*x\*x;

}

x++;

}

Exercise 3

#include <stdio.h>

int area\_yard(int width ,int length);

int area\_house(int width ,int length);

int main(void){

int width\_yard,length\_yard,width\_house,length\_house;

int AreaYard,AreaHouse,LawnArea;

printf("Enter width of Yard : ");

scanf("%d",&width\_yard);

printf("Enter length of Yard : ");

scanf("%d",&length\_yard);

printf(":::::::::::::::::::::::::::\n");

printf("Enter width of House : ");

scanf("%d",&width\_house);

printf("Enter length of House : ");

scanf("%d",&length\_house);

AreaYard = area\_yard(width\_yard ,length\_yard);

AreaHouse = area\_house(width\_house ,length\_house);

LawnArea = AreaYard - AreaHouse ;

printf("\nLawn Area is : %d",LawnArea);

return 0;

}

int area\_yard(int width ,int length){

int area\_yard = width \* length;

return area\_yard;

}

int area\_house(int width ,int length){

int area\_house = width \* length;

return area\_house;

}

Exercise 4

#include <stdio.h>

float findCA\_1 (int t\_marks1);

float findCA\_2 (int t\_marks2);

int main(void)

{

float CA1,CA2;

int marks1,marks2,i,j;

for ( i = 0; i < 5; i++)

{

printf("Enter Student %d Marks1 : ",i+1);

scanf("%d",&marks1);

printf("Enter Student %d Marks2 : ",i+1);

scanf("%d",&marks2);

CA1 = findCA\_1 (marks1);

CA2 = findCA\_2 (marks2);

printf("%.2f %.2f\n",CA1,CA2);

}

return 0;

}

float findCA\_1 (int t\_marks1){

float final1 = t\_marks1\*20.0/100;

return final1;

}

float findCA\_2 (int t\_marks2){

float final2 = t\_marks2\*30.0/100;

return final2;

}