LAB #01

// question # 1

#include <stdio.h>

int main(){

    int emp\_id, salary\_per\_hour = 999;

    float hours\_worked;

    printf ("enter an employee ID:\t");

    scanf ("%f”, &emp\_id);

    printf ("enter total Hours worked:\t");

    scanf("%f",&hours\_worked);

    printf("total salary of employee(ID = %d):Rs%2f/=",emp\_id,salary\_per\_hour\*hours\_worked);

    return 0;

}

// question 2

#include <stdio.h>

int main(){

    float height, width;

    printf("enter height:\t");

    scanf("%f",&height);

    printf("\nenter width:\t");

    scanf("%f",&width);

    printf("perimeter is: %2f",height\*2+width\*2);

    printf("area : %2f square units",height\*width);

    return 0;

}

// question 3

#include <stdio.h>

int main() {

    float height;

    printf("enter height :\t");

    scanf("%f",&height);

    if (height<150){

    printf("the person is dwarf");}

    else if (height == 150)

    {printf("the person is average");}

    else if (height>=165){

    printf("the person is tall");}

    else

    {printf("the person is between dwarf and tall but not average");}

    return 0;

}

// question #4

#include<stdio.h>

int decimal\_to\_binary(num){

    int dec = num, bin = 0, rem = 0,

    while (dec)

    {

    rem = dec%2;

    dec = dec%2;

    bin = bin+(rem\*place);

    place = place \*10

    }

    return bin;

}

    int main(){

        printf("decimal to binary converter\n\n");

        int num;

        printf("enter decimal no; ");

        scanf("%d",&num);

        printf("binary equivalent:%d",decimal\_to\_binary);

        return 0;

    }

// question # 5

#include<stdio.h>

int fab (a,b,num){

    int x = a, y=b,z , n = num;

    if (n=0){

        return 0;

    }

    else{

        z = x+y;

        printf("%d",z);

        return fab(y,z, n-1);

    }

}

    int main(){

        int a  = 0, b= 1, num;

        printf("enter nth term of fibonacci series:\t");

        scanf("%d",&num);

        printf("1");

        fab(a,b,num);

        return 0;

    }