TOOBA FATIMA
CS#22056

CEW LAB1

Answer#1

```
#include <stdio.h>
int main() {
    int emp_id,salary_per_hour=999;
    float hours_worked;
    printf("Enter Employee ID:\t");
    scanf("%d",&emp_id);
    printf("\nEnter total hours worked in this month:\t");
    scanf("%f",&hours_worked);
    printf("The total salary of the Employee(ID = %d): Rs.%.2f/= ",
emp_id, salary_per_hour * hours_worked);
    return 0;
}
```

```
Enter Employee ID:  101
Enter total hours worked in this month: 144.56
The total salary of the Employee(ID = 101): Rs.144415.44/=
```

Answer#2

```
#include <stdio.h>
int main() {
    float height, width;
    printf("Enter Height of the Rectangle:\t");
    scanf("%f",&height);
    printf("\nEnter Width of the Rectangle:\t");
    scanf("%f",&width);
    printf("The Perimeter of the Rectangle: %.2f units",height*2+width*2);
    printf("\nThe Area of the Rectangle: %.2f square units",height*width);
    return 0;
}
```

```
Enter Height of the Rectangle:  4
Enter Width of the Rectangle:   8
The Perimeter of the Rectangle: 24.00 units
The Area of the Rectangle: 32.00 square units
```

Answer#3

```
#include <stdio.h>

int main() {
    float height;
    printf("Enter Height of the Person in centimeters:\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;
}
```

```
Enter Height of the Person in centimeters:  165
The Person is TALL
```

Answer#4

```
#include<stdio.h>

int decimal_to_binary(num){
  int dec = num,bin=0,rem=0,place=1;
  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 A DECIMAL NUMBER: ");
    scanf("%d",&num);
    printf("BINARY EQUIVALENT: %d",decimal_to_binary(num));
    return 0;
}
```

```
DECIMAL TO BINARY CONVERTER

ENTER A DECIMAL NUMBER: 10
BINARY EQUIVALENT: 1010
```

Answer#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("FIBONACCI SERIES PRINTER\nEnter nth term of fibonacci series:\t
");
    scanf("%d",&num);
    printf("1 ");
    fab(a,b,num);

}
```

```
FIBONACCI SERIES PRINTER
Enter nth term of fibonacci series:  8
1 1 2 3 5 8 13 21 34
```