LAB 1

EXERCISES

CODE # 01:

```
#include <stdio.h>


int main()
{
   int empID,salaryPerHour;
   float workingHours;
   printf("Enter The Employee Salary per hour here: ");
   scanf("%d", &salaryPerHour);
   printf("\nEnter Employee's ID here:");
   scanf("%d", &empID);
   printf("\nEnter Total Working hours for this month:");
   scanf("%f", &workingHours);
   printf("The Employee's ID is %d",empID);
   printf("\nThe Total Salary of the Employee is Rs.%.2f",salaryPerHour*workingHours);
   return 0;
}
```

OUTPUT:

```
Enter The Employee Salary per hour here: 200
Enter Employee's ID here:2200
Enter Total Working hours for this month:150
The Employee's ID is 2200
The Total Salary of the Employee is Rs.30000.00
```

CODE # 02:

```
#include <stdio.h>

int main(){
   float W,H;
printf("Enter Height of The Rectancle: ");
scanf("%f", &H);
printf("\nEnter Width of The Rectangle: ");
scanf("%f", &W);
printf("PERIMETER: %.2f units",(H*2)+(W*2));
printf("\nAREA: %.2f square units", H*W);
return 0;
}
```

OUTPUT:

```
Enter Height of The Rectancle: 12
Enter Width of The Rectangle: 14
PERIMETER: 52.00 units
AREA: 168.00 square units
```

CODE # 03:

```
#include <stdio.h>
   int main() {
   float Height;

   printf("Enter Height of the Person in centimeters here: ");
   scanf("%f",&Height);
   if(Height<150)
      printf("The Person is a DWARF!.");
```

```
    else if(Height==150)
        printf("The Person is AVERAGE!.");
    else if(Height>=165)
        printf("The Person is TALL!.");
    return 0;
    }
```

OUTPUT:

```
Enter Height of the Person in centimeters here: 170
The Person is TALL!.
```

CODE # 04:

```
#include <stdio.h>
void decimalToBinary(int decimalNumber) {
    if (decimalNumber == 0) {
        return;
    }
    decimalToBinary(decimalNumber / 2);
    printf("%d", decimalNumber % 2);
}

int main() {
    int decimalNumber;
    printf("Enter a decimal number here: ");
    scanf("%d", &decimalNumber);

    printf("Your required Binary equivalent is ");
    decimalToBinary(decimalNumber);
    printf("\n");
```

```
    return 0;
}
```

OUTPUT:

```
Enter a decimal number here: 4
Your required Binary equivalent is 100
```

CODE # 05:

```
#include <stdio.h>

int fibo(a,b,num){
  if (num==0){
    printf("\nEnd of Series!");
    return 0;
  }else{
    int z=(a+b);
    printf("   %d ",z);
    a=b;
    b=z;

    return fibo(a,b,num-1);

  }
}
int main() {
    int num;
    printf("FIBONACCI SERIES!:\nEnter the nth term of the Fibonacci series here: ");
```

```
    scanf("%d",&num);
    printf("   1");
    fibo(0,1,num-1);
    return 0;
}
```

OUTPUT:

```
FIBONACCI SERIES!:
Enter the nth term of the Fibonacci series here: 5
1  1   2   3   5
End of Series!
```