**Northwestern Polytechnic University**

**CE450L Lab - Embedded Engineering Lab**

**Lab Assignment #3**

**Student ID: 19590**

**1. Write a program to find the sum of two numbers.**

#include <stdio.h>

int main()

{

int a,b,sum;

printf("Enter two numbers:");

scanf("%d %d", &a, &b);

sum=a+b;

printf("Sum = %d",sum);

return 0;

}

**Output:**

Enter two numbers: 5 6

Sum = 11

**2. Write program to find area and circumference of circle**

#include <stdio.h>

int main()

{

float radius;

float area, circumference=1;

printf("Enter radius of a circle:");

scanf("%f",&radius);

area= radius\*radius\*3.14;

printf("Area of Circle = %.2f",area);

circumference=2\*radius\*3.14;

printf("\ncircumference of circle = %.2f", circumference);

return 0;

}

**Output:**

Enter radius of a circle:5

Area of Circle = 78.50

circumference of circle = 31.40

**3. Write program to find the simple interest**

#include <stdio.h>

int main()

{

int principle, t, rate, SI;

printf("Enter principle, rate of interest and time to find SI:");

scanf("%d %d %d", &principle, &rate, &t);

SI = (principle \* t \* rate) / 100;

printf("Simple Interest = %d", SI);

return 0;

}

**Output:**

Enter principle, rate of interest and time to find SI:500 5 2

Simple Interest = 50

**4. Write program to convert temperature from degree centigrade to Fahrenheit**

#include <stdio.h>

int main()

{

float centigrade, fahrenheit;

printf("Enter temperature in Celsius: ");

scanf("%f", &centigrade);

fahrenheit = (1.8 \* centigrade) + 32;

printf("Temperature in Fahrenheit = %f ", fahrenheit);

return 0;

}

**Output:**

Enter temperature in Celsius: 32

Temperature in Fahrenheit = 89.599998

**5. Write program to calculate sum of 5 subjects and find percentage**

#include<stdio.h>

int main()

{

int s1, s2, s3, s4, s5, sum, total;

float percentage;

printf("Enter marks of 5 subjects : ");

scanf("%d %d %d %d %d", &s1, &s2, &s3, &s4, &s5);

printf("Enter assumption total number: ");

scanf("%d",&total);

sum = s1 + s2 + s3 + s4 + s5;

printf("Sum = %d", sum);

per = (sum \* 100) / total;

printf("\nPercentage = %f", percentage);

return (0);

}

**Output:**

Enter marks of 5 subjects : 60 65 55 60 60

Enter assumption total number: 500

Sum = 300

Percentage = 60.000000