**Experiment : 4**

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**Assignment CSE (1181)**

**Program: 1**

#include<stdio.h>

void main()

{

float basicpay,HRA,TA;

printf("Enter the basic pay");

scanf("%f",&basicpay);

HRA=(basicpay\*15)/100;

TA=(basicpay\*20)/100;

basicpay=basicpay+HRA+TA;

printf("salary of employee is %.2f",basicpay);

}

**Program : 2**

#include<stdio.h>

#include<math.h>

void main()

{

float x1,x2,y1,y2,m,a;

printf("Enter slope of line");

scanf("%f%f%f%f",&x1,&x2,&y1,&y2);

m=(y2-y1)/(x2-x1);

printf("The slope of line is=%.2f",m);

a=atan(m);

printf("The angle of inclination=%.2f",a);

}

**PROGRAM:3**

#include<stdio.h>

void main()

{

float c1,c2,c3,c4,c5,g1,g2,g3,g4,g5,SPI;

printf(“Enter the value of credits”);

scanf(“%f%f%f%f%f”,&c1,&c2,&c3,&c4,&c5);

printf(“Enter the grades”);

scanf(“%f%f%f%f%f,&g1,&g2,&g3,&g4,&g5”);

SPI=(c1\*g1+c2\*g2+c3\*g3+c4\*g4+c5\*g5)/(c1+c2+c3+c4+c5);

printf(“ The SPI is%.2f”,SPI);

}

**PROGRAM: 4**

#include<stdio.h>

void main()

{

float c, f, lambda;

printf("Enter the value of speed and wavelength");

scanf("%f%f",&c,&lambda);

f=c\*lambda;

printf("frequency is=%.2f",f);

}

**PROGRAM: 5**

#include<stdio.h>

#include<math.h>

void main()

{

int u=30,a=5,s=70,v1;

float v;

v1=(u\*u)+2\*a\*s;

v=sqrt(v1);

printf(“The final velocity is=%.2f”,v);

}

**PROGRAM: 6**

#include<stdio.h>

void main()

{

int u=0,a=4,t=3,s,v;

v=u+a\*t;

s=u\*t+(0.5\*a\*t\*t);

printf(“The final velocity is”,v);

printf(“Total distance travelled”,s);

}