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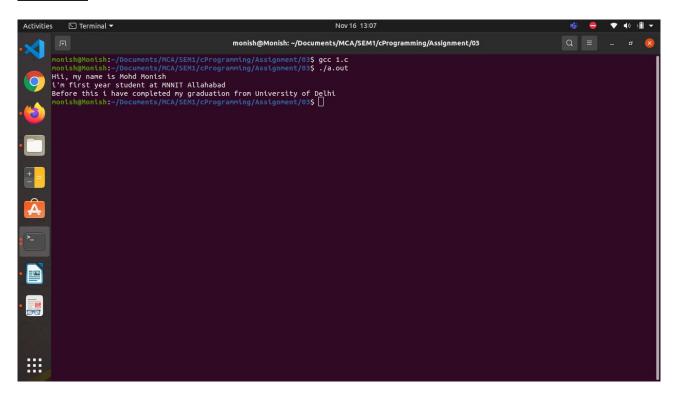
PROGRAM 1

/*1. WAP to print information about yourself.*/

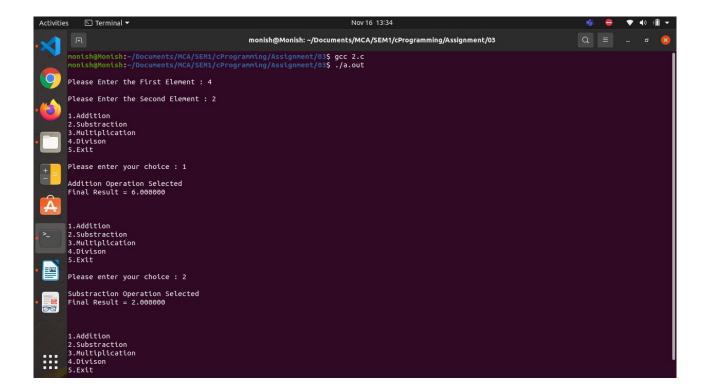
#include<stdio.h>

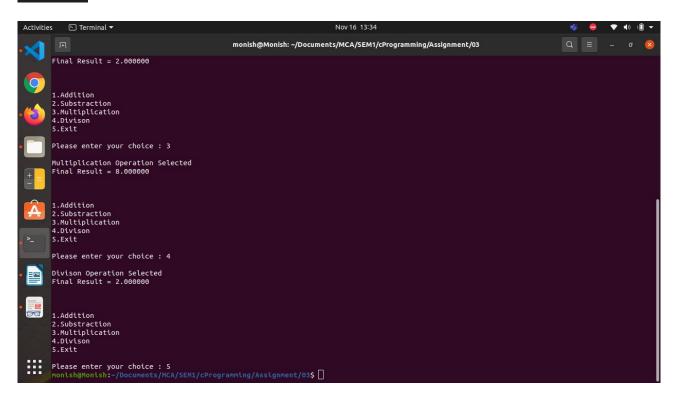
int main(){

printf("Hii, my name is Mohd Monish\ni'm first year student at MNNIT Allahabad"); printf("\nBefore this i have completed my graduation from University of Delhi\n"); }



```
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PROGRAM 2
/*2. Write a program in C that takes input through keyboard for two integer variables and
calculate their sum, difference, multiplication & division.
*/
#include<stdio.h>
#include<stdlib.h>
int main(){
float a,b,result=0;
int choice;
printf("\nPlease Enter the First Element : ");
scanf("%f",&a);
printf("\nPlease Enter the Second Element : ");
scanf("%f",&b);
//value of a and b are provide by user
while(1){
//always true so it run againg and again
printf("\n1.Addition \n2.Substraction\n3.Multiplication \n4.Divison\n5.Exit \n\nPlease enter
your choice : ");
//provide a menu bar of operations
scanf("%d",&choice);
//when user enter their operation type
switch(choice){
case 1 : {printf("\nAddition Operation Selected\n");
result=a+b;
break:}
case 2 :{printf("\nSubstraction Operation Selected\n");
result=a-b;
break:}
case 3 : {printf("\nMultiplication Operation Selected\n");
result=a*b;
break;}
case 4 :{printf("\nDivison Operation Selected\n");
result=a/b;
break;}
case 5:exit(0);//exit case
default :{ printf("\n\n Ivalid Choice !!!!!!!\n\n");
//if user enter any other number that will not given in options it will be wrong choice
printf("Final Result = %f \n\n",result);
//final result will be display here
return 0;
OUTPUT 1
```





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PROGRAM 3

/*3. Rajesh's basic salary is input through the keyboard. His dearness allowance is 40% of basic

salary, and house rent allowance is 20% of basic salary. Write a program in C to calculate his gross salary.*/

#include<stdio.h>

int main(){

int t:

float basicSalary,grosSgalary,HRA,DA;

printf("\nPlease inter Rajesh's basic salary : ");

//taking input Rajesh's basic salary

scanf("%f",&basicSalary);

//read and store in varible

HRA=basicSalary*.20;

//calculate HRA

DA=basicSalary*.40;

//calculate DA

grosSgalary=basicSalary+HRA+DA;

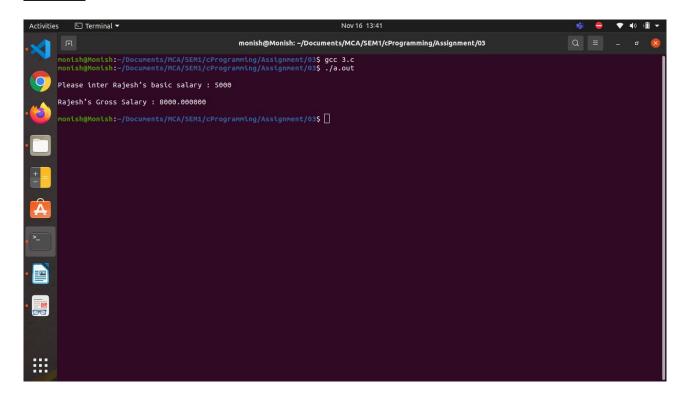
//calculating grosSgalary

printf("\nRajesh's Gross Salary : %f\n\n",grosSgalary);

//final output here

return 0;

}



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PROGRAM 4

/*4. The distance between two cities (in Km) is input through the keyboard. Write a program

to convert and print this distance in meters, feet, inches and centimeters. */

#include<stdio.h>

int main(){

float distance;

printf("\nPlease inter distance between in Kilometers : ");

//taking input from user distance in kilometers

scanf("%f",&distance);

//store value in distance variable

printf("\nDistance in meters :%f",distance*1000);

//convert distance in meter

printf("\nDistance in feet :%f",distance*3280.84);

//convert distance in feet

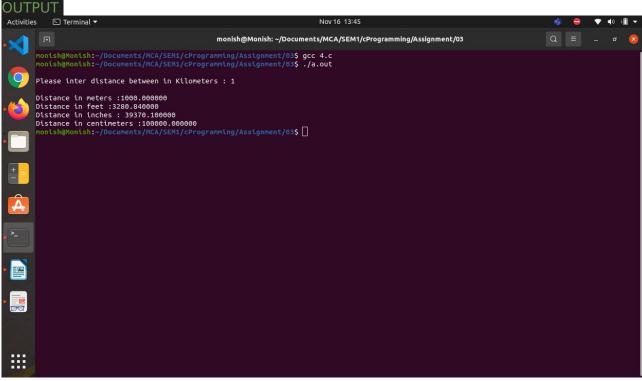
printf("\nDistance in inches : %f",distance*39370.1);

//convert distance in inches

printf("\nDistance in centimeters :%f\n",distance*100000);

//convert distance in centimeters





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PROGRAM 5

/*5. If the marks obtained by a student in five different subjects are input through the keyboard, find

out the aggregate marks and percentage marks obtained by the student. Assume

maximum

marks in each subject=100.*/

#include<stdio.h>

int main(){

float marks=0,total marks=0;

for (int i = 0; i < 5; i++)

{ printf("\nPlease inter the subject marks of %d : ",i+1);

//taking input of 5 subjects marks one by one

scanf("%f",&marks);

if (marks>100|| marks<0){

/*if user enter invalid marks then if condition will be true and error message give

and user need to enter the correct marks */

printf("\nnvalid Marks!\nPlease inter marks greater than or equals to zero and less than or

equals to $100!\n");$

i--;

marks=0;

continue; }

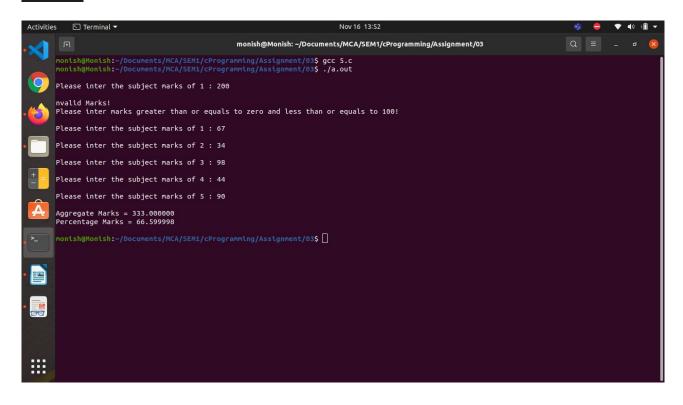
total marks=total marks+marks;}

printf("\nAggregate Marks = %f",total marks);

 $printf("\nPercentage Marks = \%f\n\n",total marks/5);$

return 0;

}



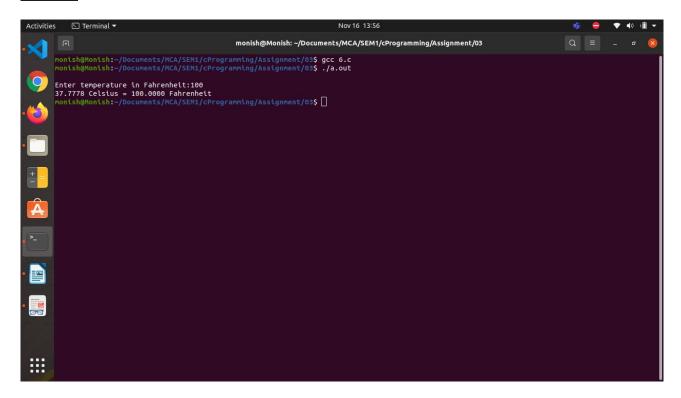
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PROGRAM 6

/*6. Temperature of a city in Fahrenheit degrees is input through the keyboard. Write a program

to convert this temperature into Centigrade degrees.*/

#include<stdio.h> void main() { float celsius,fahrenheit; printf("\nEnter temperature in Fahrenheit:"); //taking temperature input from user in Fahrenheit scanf("%f",&fahrenheit); //storing value celsius=(fahrenheit - 32)*5/9; //converting in celsius printf("%.4f Celsius = %.4f Fahrenheit \n", celsius, fahrenheit);



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PROGRAM 7

/*7. The length and breadth of a rectangle and radius of a circle are input through the keyboard. Write

a program in C to calculate the area & perimeter of the rectangle, and the area &

circumference

of the circle.*/

#include<stdio.h>

int main(){

printf("\n This is program to calculate area and parameter of rectangle and circle !\n");

float hight, width, radius;

printf("\nPlease enter Hight of Rectangle : ");

scanf("%f",&hight);

//taking input height of rectange

printf("\nPlease enter Width of Rectangle : ");

scanf("%f",&width);

//taking input Radius of rectange

printf("\nPlease enter Radius of Circle : ");

scanf("%f",&radius);

//taking input Radius of rectange

printf("\nArea of rectangle is %f and Parameter of rectangle is : %f

",hight*width,2*(hight+width));

//calculating area and parameter of rectangle i.e. hight*width and 2(hight+width)

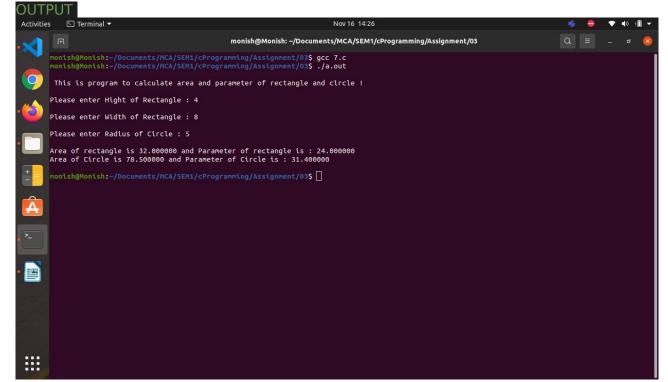
printf("\nArea of Circle is %f and Parameter of Circle is : %f

",3.14*radius*radius,2*3.14*radius);

//calculating area and parameter of Circle

printf("\n\n");

}



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PROGRAM 8

/*8. Two numbers are input through the keyboard into two locations A and B. Write a program in C

to interchange the contents of A and B. */

#include<stdio.h>

int main(){

int a,b,temp;

printf("\nPlease Enter Integer Value of A : ");

scanf("%d",&a);

printf("\nPlease Enter Integer Value of B : ");

scanf("%d",&b);

printf("\nValue Entered By you $A = %d \& B = %d \n",a,b);$

temp=a;

//storing vlaue of a in temp variable

a=b;

//transfring value of a in b

b=temp;

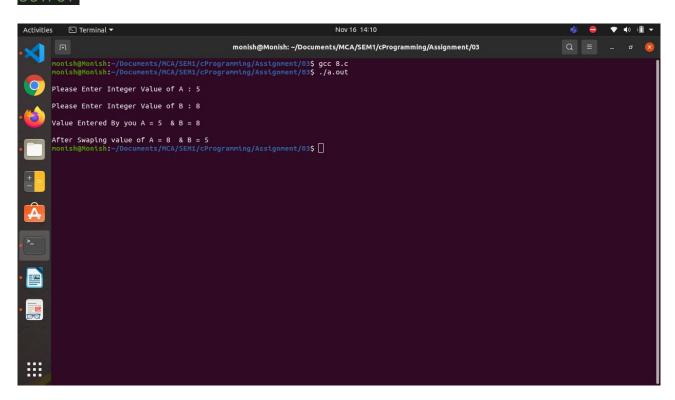
//storing value of temp in b

printf("\nAfter Swaping value of $A = %d \& B = %d \n",a,b)$;

//display the result afer swaping

return 0;

}



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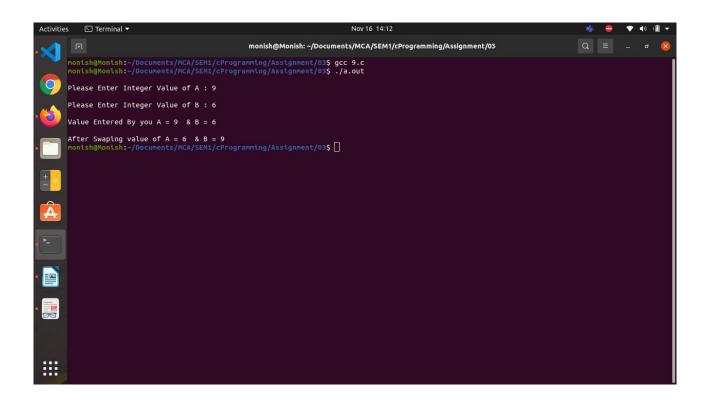
```
PROGRAM 9

//9. WAP to swap two variables without using 3 rd variable.

#include<stdio.h>
int main(){
int a,b;
printf("\nPlease Enter Integer Value of A:");
scanf("%d",&a);
printf("\nPlease Enter Integer Value of B:");
scanf("%d",&b);
printf("\nValue Entered By you A = %d & B = %d \n",a,b);
a=a+b-(b=a);
printf("\nAfter Swaping value of A = %d & B = %d \n",a,b);
```

OUTPUT

}



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PROGRAM 10

/*10. WAP to find the area of a triangle given base and height as input from key board.*/#include<stdio.h>

int main(){

printf("\n This is program to calculate area of triangle !\n");

float hight, base;

printf("\nPlease enter Height of Triangle : ");

scanf("%f",&hight);

//taking input height base of Triangle

printf("\nPlease enter base of Triangle : ");

scanf("%f",&base);

// taking input base of Triangle

printf("\nArea of Triangle is : %f \n",.5*hight*base);

//claculating area of triangle

}

