Practicle 1

```
Program 1:

Code:

/* Program1: WAP to take check ehether the input is a leap year or not

*/

#include<stdio.h>

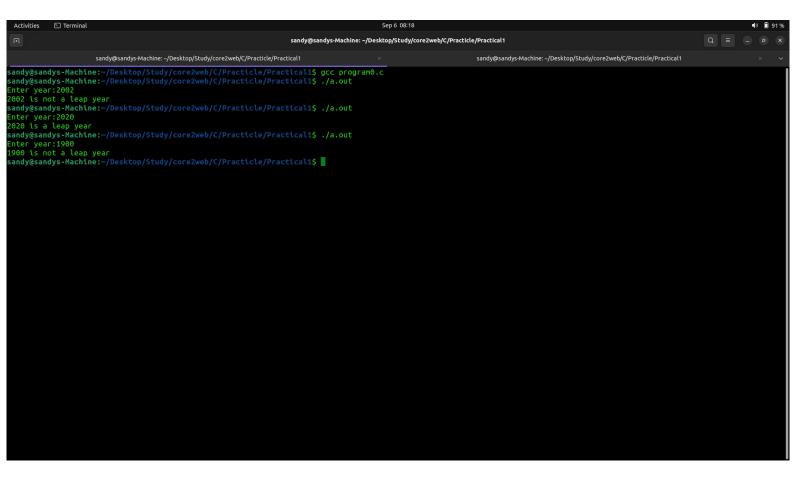
void main() {

int year;

printf("Enter year:");
 scanf("%d",&year);

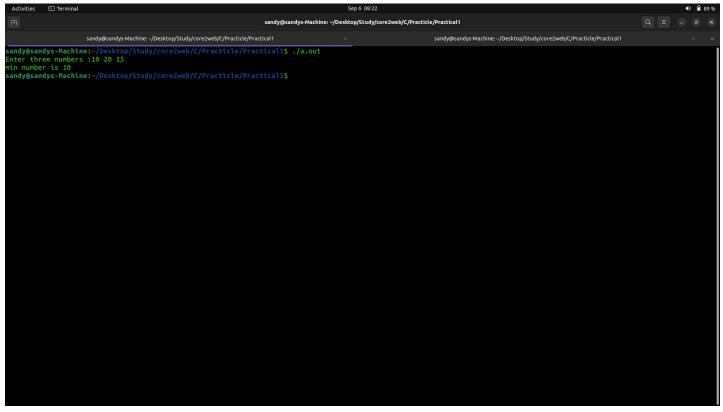
if( (year%400==0) || ((year%4 == 0) && (year%100!=0)))
 printf("%d is a leap year\n",year);
 else
 printf("%d is not a leap year\n",year);

}
```



```
Program 2:
Code:
      Program2 WAP to find max among 3 numbers
* */
      #include<stdio.h>
      void main() {
             int num1,num2,num3;
             printf("Enter three numbers :");
             scanf("%d %d %d",&num1,&num2,&num3);
             if(num1 == num2 && num1 == num3) {
                    printf("%d, %d and %d are eual numbers\n",num1,num2,num3);
             }else {
                    if(num1 > num2 && num1 > num2)
                          printf("max number is %d\n",num1);
                    else if(num2 > num3)
                          printf("max number is %d\n",num2);
                    else
                          printf("max number is %d\n",num3);
             }
```

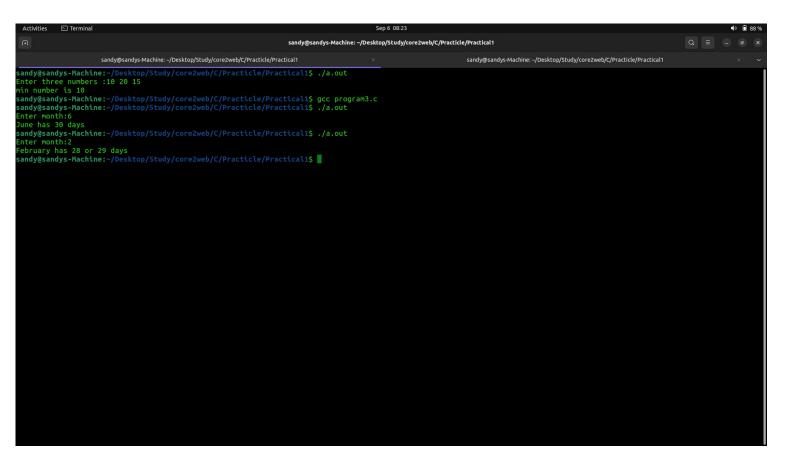
```
Program 3:
Code:
/*
      Program2 WAP to find min among 3 numbers
* */
      #include<stdio.h>
      void main() {
             int num1,num2,num3;
             printf("Enter three numbers :");
             scanf("%d %d %d",&num1,&num2,&num3);
             if(num1 == num2 && num1 == num3) {
                    printf("%d, %d and %d are eual numbers\n",num1,num2,num3);
             }else {
                    if(num1 < num2 && num1 < num2)
                          printf("min number is %d\n",num1);
                    else if(num2 < num3)
                           printf("min number is %d\n",num2);
                    else
                           printf("min number is %d\n",num3);
             }
      }
```



```
Program 4:
Code:
       program 4:write a program according to the month number print the no of days in that
       months
*/
       #include<stdio.h>
        void main() {
               int month;
               printf("Enter month:");
               scanf("%d",&month);
              switch(month) {
                      case 1:
                             printf("January has 31 days\n");
                             break;
                      case 2:
                              printf("February has 28 or 29 days\n");
                             break;
                      case 3:
                             printf("March has 31 days\n");
                             break;
                      case 4:
                             printf("April has 30 days\n");
                             break;
                      case 5:
                             printf("May has 31 days\n");
                             break;
                      case 6:
                             printf("June has 30 days\n");
                             break;
                      case 7:
                              printf("July has 31 days\n");
                             break;
                      case 8:
                             printf("August has 31 days\n");
                             break;
                      case 9:
                             printf("September has 30 days\n");
                             break;
                      case 10:
                              printf("October has 31 days\n");
```

break;

case 11:



```
Program 5:

Code:

/*

* Program 5: Write a program that takes a number from 0 to 5 and prints its spelling

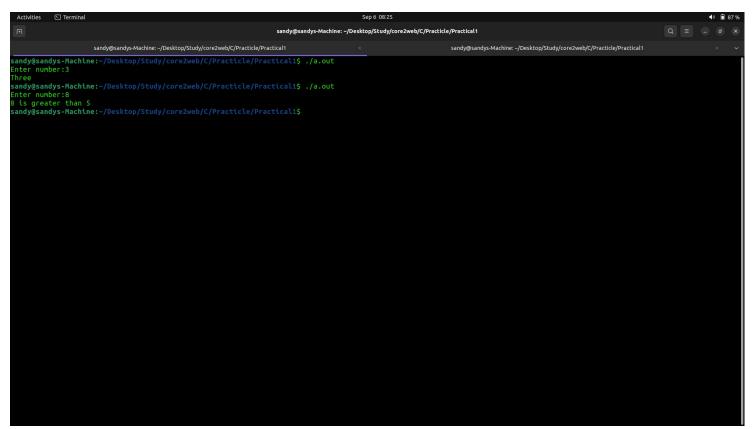
* if the number is greater than 5 print entered number is greater than 5

*/

#include<stdio.h>

void main() {
    int num;
    printf("Eter number:");
```

```
scanf("%d",&num);
switch(num) {
       case 0:
               printf("Zero\n");
               break;
       case 1:
               printf("One\n");
               break;
       case 2:
               printf("Two\n");
               break;
       case 3:
               printf("Three\n");
               break;
       case 4:
               printf("Four\n");
               break;
       case 5:
               printf("Five\n");
               break;
       default:
               if(num>5)
                      printf("%d is greater than 5\n",num);
               else
                      printf("Enter number greater than 0\n");
               break;
}}
```



```
Program 6:

Code:

/*

* Program 6: WAP to get 10 nubers from user and fint thei avg and sum

#include<stdio.h>

void main() {

int num,sum=0;
float avg;

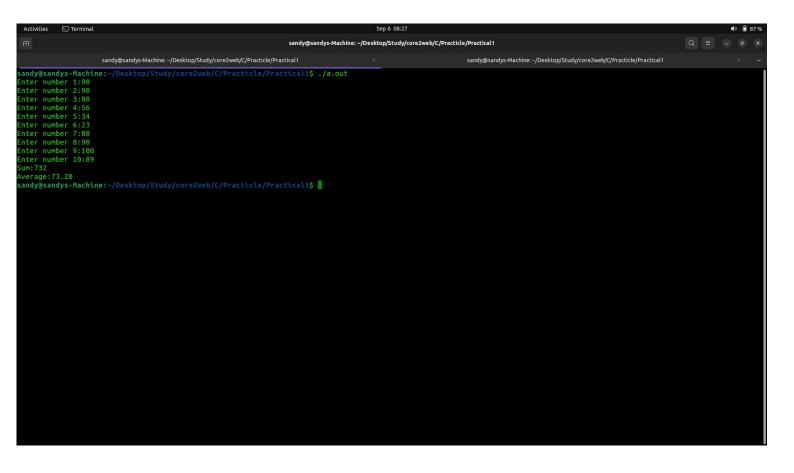
for(int i=1;i<=10;i++) {

printf("Enter number %d:",i);
scanf("%d",&num);

sum = sum + num;
}

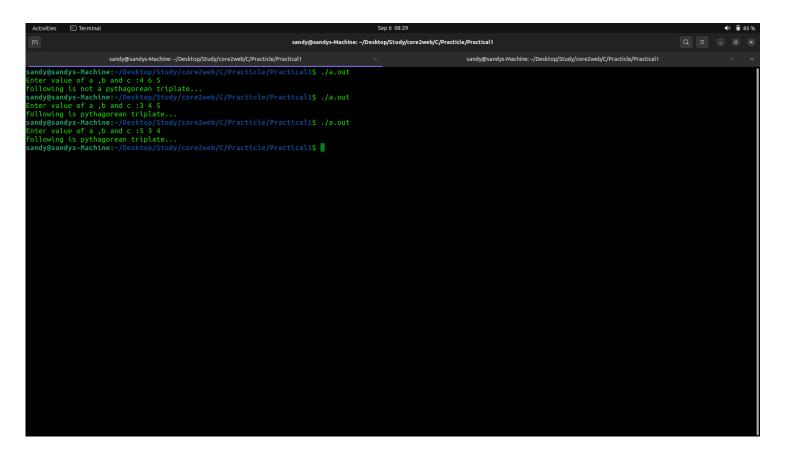
avg = (float)sum / 10;
printf("Sum:%d\nAverage:%.2f\n",sum,avg);
```

}



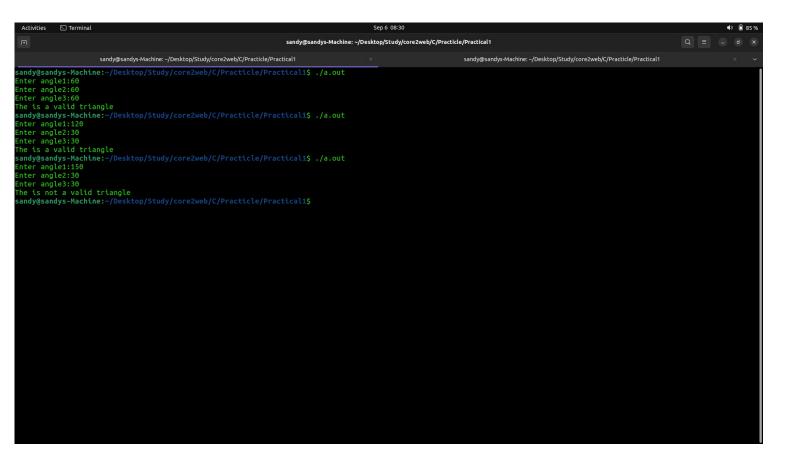
```
Program 7:
Code:
       Program 7: WAP to check weather given input is a pythagorean triplate or not
*/
       #include<stdio.h>
       void main() {
               int a,b,c;
               printf("Enter value of a ,b and c :");
               scanf("%d %d %d",&a,&b,&c);
               int hypo;
               if(a>b && a>c) {
                      hypo = a;
                      a = b;
                      b = c;
              else if(b>c) {
                      hypo = b;
                      b = c;
               }else {
                      hypo = c;
               }
               if(a*a + b*b == hypo*hypo) {
                      printf("following is pythagorean triplate...\n");
              }else {
                      printf("following is not a pythagorean triplate...\n");
               }
```

}



```
Program 8:
Code:
/*
       program 8: WAP taht takes angles of a triangle from user and print weather the angle is
       valid or not
*/
       #include<stdio.h>
       void main() {
              int angle1,angle2,angle3;
              printf("Enter angle1:");
              scanf("%d",&angle1);
              printf("Enter angle2:");
              scanf("%d",&angle2);
              printf("Enter angle3:");
              scanf("%d",&angle3);
              if(angle1+angle2+angle3 == 180)
```

```
printf("The is a valid triangle\n");\\ else\\ printf("The is not a valid triangle\n");\\ \}
```



```
Program 9:

Code:

/*

* Program 9: Print all divisors of entered number

*/

#include<stdio.h>

void main() {

int num;

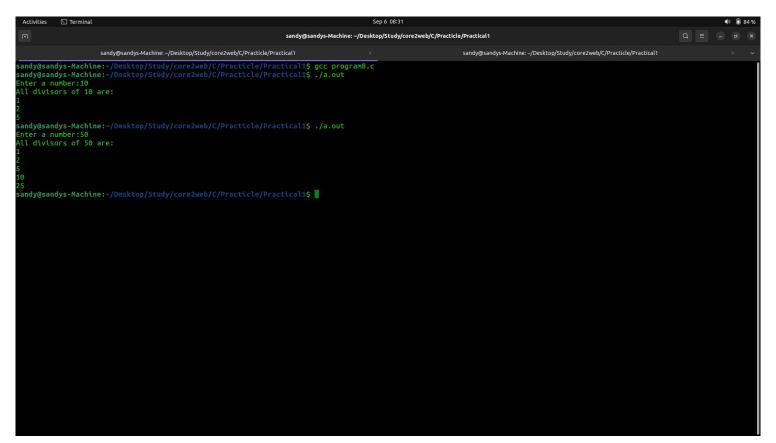
printf("Enter a number:");
 scanf("%d",&num);

if(num<=0) {
```

```
printf("Enter positive numbers only...\n");
}else {

    printf("All divisors of %d are:\n",num);
    for(int i=1;i<=num/2;i++) {

        if(num%i==0)
            printf("%d\n",i);
     }
}</pre>
```



```
Program 10: Code:
```

```
/*
    * Program 10: WAP take two characters if these characters are equal then print them as it is but if they are unequal then print their difference
    */

#include<stdio.h>

void main() {
    char ch1,ch2;
```

