## second assignment of c programing.

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Section or lab: 8

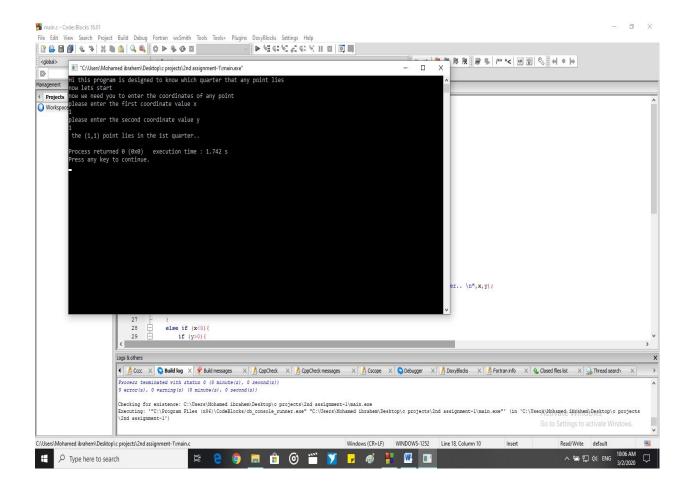
**Electrical communication engineering.** 

## Code1:-

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
  int x, y;
  printf("Hi this program is designed to know which quarter that any point lies \n");
  printf ("now lets start\n");
  printf("now we need you to enter the coordinates of any point \n");
  printf("please enter the first coordinate value x\n");
  scanf("%d",&x);
  printf("please enter the second coordinate value y\n");
  scanf("%d",&y);
  if (x>0){
    if (y>0){
       printf(" the (%d,%d) point lies in the 1st quarter.. \n",x,y);
    }
```

```
else if (y<0){
    printf(" the (%d,%d) point lies in the 4th quarter.. \n",x,y);
  }
  else if (y==0){
    printf(" the (%d,%d) point lies in the middle between the 1st quarter and 4th quarter.. \n",x,y);
    printf("on the +ve x axis\n");
  }
}
else if (x<0){
  if (y>0){
    printf(" the (%d,%d) point lies in the 2nd quarter.. \n",x,y);
  }
  else if (y<0){
    printf(" the (%d,%d) point lies in the 3rd quarter.. \n",x,y);
  }
  else if (y==0){
    printf(" the (%d,%d) point lies in the middle between the 2nd quarter and 3rd quarter.. \n",x,y);
    printf("on the -ve x axis\n");
  }
}
else if (x==0){
  if (y==0){
    printf(" the (%d,%d) point lies in the center.. n'',x,y);
```

```
else if (y<0){
    printf(" the (%d,%d) point lies in the middle between the 3rd quarter and 4th quarter.. \n",x,y);
    printf("in the -ve y axis\n");
}
else if (y>0){
    printf(" the (%d,%d) point lies in the middle between the 2nd quarter and 1st quarter.. \n",x,y);
    printf("in the +ve y axis\n");
}
return 0;
}
```



## Code 2

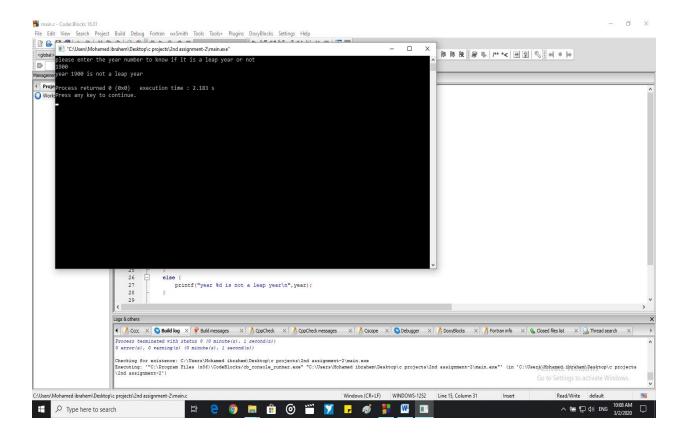
```
#include <stdlib.h>

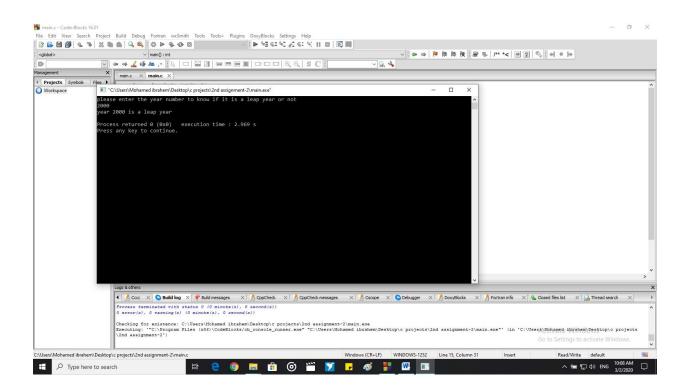
int main()
{
    int year;
    printf("please enter the year number to know if it is a leap year or not\n");
    scanf("%d",&year);
    if (year%4==0){
```

#include <stdio.h>

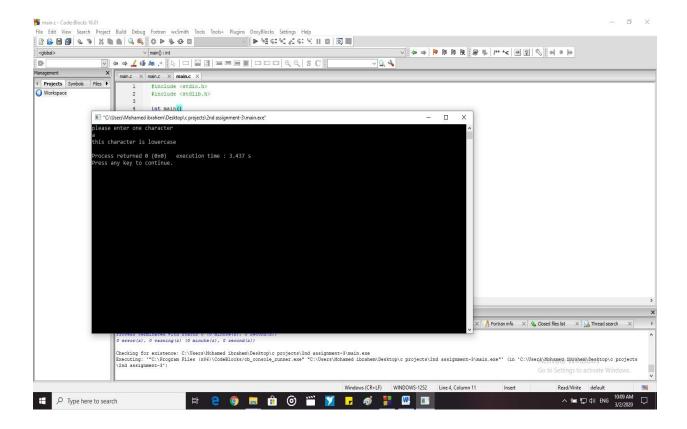
```
if (year%400==0){
    printf("year %d is a leap year\n",year);
  }
  else if (year%100==0){
    printf("year %d is not a leap year\n",year);
  }
  else {
    printf("year %d is a leap year\n",year);;
  }
}
else {
  printf("year %d is not a leap year\n",year);
}
return 0;
```

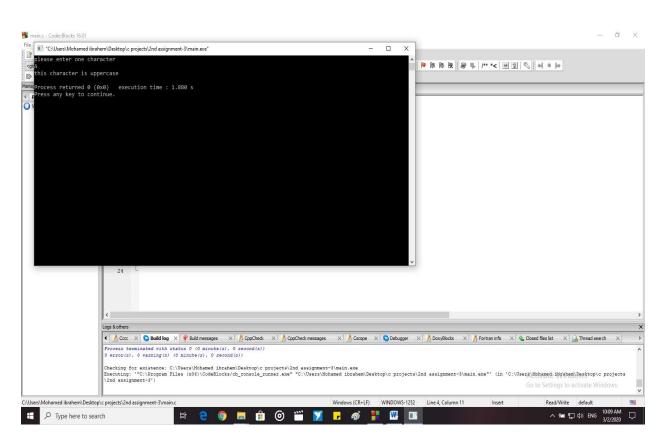
}





```
#include <stdio.h>
#include <stdlib.h>
int main()
  int y;
  char x;
  printf("please enter one character\n");
  scanf("%c",&x);
 y=(int)x;
  if (y>64 && y<91){
    printf("this character is uppercase\n");
  }
  else if (y>96 && y<123){
    printf("this character is lowercase\n");
  }
  else {
    printf(" wrong entry, it is not a character \n");
  }
  return 0;
}
```





## Code 4:-

```
#include <stdio.h>
#include <stdlib.h>
int main()
  int x ,z ,g,h,j,k,l;
    printf("enter a decimal number less or equal 31 \n");
  scanf("%d",&x);
  if (x<=31){
  g=x%2;
  z=x/2;
  x=z;
  h=x%2;
  z=x/2;
  x=z;
 j=x%2;
  z=x/2;
  x=z;
  k=x%2;
  z=x/2;
```

```
x=z;
l=x%2;
printf("the binary is %d%d%d%d%d\n",l,k,j,h,g);
}
else {
    printf(" you entered number more than the maximum which is 31\n");
}
return 0;
}
```

