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Assignment 3 c programing (LAB BOOK)
Q 1)WRITE A PROGRAM TO ACCEPT AND INTEGER AND CHECK IF IT IS EVEN OR ODD
          File Edit Search Run Compile Debug Project Options

ASSIG3Q1.C
                                                                                  Window Help
      #include<stdio.h>
#include<conio.h>
int main()
          int n;
          clrscr();
         printf("enter number");
scanf("xd",&n);
if(nxZ==0)
            printf("\n even number",n);
          else
            printf("\n odd number",n);
          getch();
          return 0;
             F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu enter number 45
      odd number
```

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Q 2)ACCEPT A CHARACTER AS INPUT AND CHECK WHETHER THE CHARACTER IS A DIGITS.(RANGE
'0'TO '9'.)
           File Edit Search Run Compile Debug Project Options

ASSIG3Q2.C
                                                                                   Window Help
                                                                                           6=[‡]
      <u> [[]</u>
      <u>#</u>include<stdio.h>
      #include<conio.h>
int main()
         char ch;
         clrscrO;
         printf("enter charater");
scanf("%c",&ch);
if(ch>='0' && ch<='9')</pre>
              printf("\n is digits=\c",ch);
           }
         else
              printf("\n is not digits=xc",ch);
           getch();
           return 0;
     F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu enter charater9
      is digits=9_
```

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Q3)WRITE A PROGRAM, WHICH ACCEPT ANNUAL BASIC SALARY OF AN EMPLOYEE AND CALCULATE
AND DISPLAY THE INCOME TAX AS PER THE FOLLOWING RULE
          File Edit Search Run Compile Debug Project Options

ASSIG3Q3.C
                                                                               Window Help
                                                                                       =7=[‡]=
      -[•]-
      #include<stdio.h>
      #include<conio.h>
int main()
        float salary, tax;
        clrscrO;
        printf("enter the emp basic salary"); scanf("xf",&salary); if(salary<=150000)
           tax=0;
           printf("\n tax=\text",tax);
         else if(salary>150000 && salary<=300000)
              tax=(salary*0.2);
              printf("\n tax=xf",tax);
          else if (salary>300000)
             tax=(salary*0.3);
             = 1:1 =
     F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu enter the emp basic salary
     154000
      tax=30800.000000
```

```
Q4)ACCEPT A CHARACTER FROM THE USER AND CHECK WHETHER THE CHARACTER IS A VOWEL OR
CONSONANT.(HINT=a,e,I,o,u)(A,E,I,O,U)ARE VOWEL.
    File Edit Search Run Compile Debug Project Options

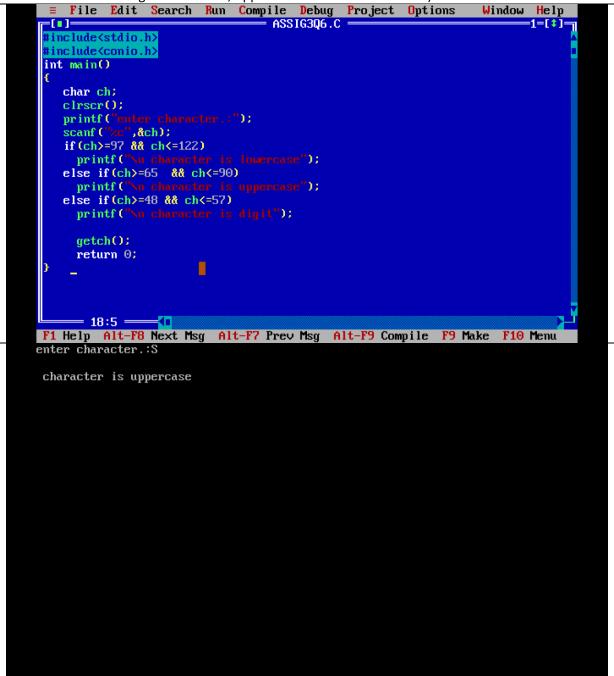
ASSIGSQ4.C
                                                                  Window Help
                                                                        =1=[#]
      char ch;
      clrscrO;
      printf("enter a character ");
scanf("xc",&ch);
       printf("\n is vowel=xc",ch);
                                                            else if((ch>='a' && ch<='z')||(ch>='a' && ch<='z'))
      printf("\n is consonant=xc",ch);
      else
       €
         printf("\n is a not alphabate=xc",ch);
       getch();
    F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu enter a character i
     is ∨owel≕i_
```

Q5)ACCEPT ANY YEAR INPUTE THROUGH THE KEYBORD.WRITE A PROGRAM TO CHECK WHETHER THE YEAR IS A LEAP YEAR OR NOT.(HINT LEAP YEAR DIVISIBLE BY 4 AND NOT BY 100 OR DIVISIBLE BY 400).

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ASSIG3Q5.C
                                                                          Window Help
[[]
 #include<stdio.h>
 #include<conio.h>
 int main()
    int y:
    clrscr();
    printf("enter any year");
scanf("%d",&y);
    if((yx4==0) && (yx100!=0) || (yx400==0))
printf("\n leap year=xd",y);
       printf("\n not leap year=\u00e4d",y);
    getch();
    return 0;
       — 1:1 ——(III)
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
enter any year 2004
 leap year=2004
```

6. Write a program to check whether given character is a digit or a character in lowercase or uppercase alphabet. (Hint ASCII value of digit is between 48 to 58 and Lowercase characters have ASCII values in the range of 97 to 122, uppercase is between 65 and 90)



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7. Accept the x and y coordinate of a point and find the quadrant in which the point lies.
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ASSIG3Q7.C
                                                                           Window Help
      <u>#</u>include<stdio.h>
      #include<conio.h>
     int main()
         int x,y;
         printf (
         printf("enter two number"); scanf("xdxd",&x,&y);
         if(x>0 && y>0)
                     oint(%d%d)lies in the quadrant",x,y);
           printf C
         else if (x<0 && y>0)
                             (xd,xd)lies in the second quaadrant",x,y);
           printf ("
         else if (x<0 && y<0)
          printf C
                             !/d,xd)lies in the third quadrant",x,y);
         else if (x>0 && y<0)
         printf("\n point(\(\times\d)\) lies in the fourth quadrant",\(\times\d);
         else if (x==0 && y==0)
         printf("\n printf(point(\timesdxd)));
      getch();
      return 0;
            = 1:1 =
    F1 Help Alt-F8 Next isg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
    enter two number
     point(4,-7)lies in the fourth quadrant
```

8. Accept the cost price and selling price from the keyboard. Find out if the seller has made a profit or loss and display how much profit or loss has been made. File Edit Search Run Compile Debug Project Options

ASSIG3Q8.C Window Help =1=[‡]= #include<stdio.h> #include<conio.h> int main() float cp,sp; printf("enter cost price , selling price");
scanf("xfxf",&cp,&sp); if (sp>cp) printf("\n profit=\timesf",sp-cp); printf("\n loss=\mathcal{L}f",cp-sp); getch(); return 0; П 16:8 = F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu enter cost price , selling price 1000 1350 profit=350.000000