```
Assiengement 2 c programing (LAB BOOK)
1. Accept dimensions of a cylinder and print the surface area and volume.
            File Edit Search Run Compile Debug Project Options
                                                                                            Window Help
                                                      = S1.C =
       #include<stdio.h>
       #include<conio.h>
int main()
           float r,h,a,v;
           clrscr();
          printf("enter redius ");
scanf("xf",&r);
printf("enter hight");
scanf("xf",&h);
           a=2*3.14*r*r+2*3.14*r*h;
           v=3.14*r*r*h;
          printf("\n surface area=\text{\text{",a}};
printf("\n valume=\text{\text{",v}};
       getch();
       return 0;
     F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu enter redius 5 enter hight 3
       surface area=251.199997
       ∨a lume=235.500000_
```

```
K C+273.15)
          File Edit Search Run Compile Debug Project Options

S2.C
                                                                                 Window Help
      #include<stdio.h>
      #include<comio.h>
      int main()
        float cel, fer, kel;
        clrscr();
        printf("enter temptures in fer");
scanf("%f",&fer);
        cel=(fer-32)/1.8;
        kel=(fer-32)/1.8+273.15;
        printf("\n cal=xf",cel);
printf("\n kel=xf",kel);
        getch();
        return 0;
     18:16 — 18:16 F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu
     enter temptures in fer 45
      cal=7.222222
kel=280.372223
```

3. Accept initial velocity (u), acceleration (a) and time (t). Print the final velocity (v) and the distance travelled (s) (Hint: v=u+at, $su+at^2$)

```
File Edit Search Run Compile Debug Project Options
                                                                          Window Help
                                         = S3.C
 #include<stdio.h>
 #include<conio.h>
int main()
   int o,t,a,u;
   float v,s;
   clrscr();
   printf("enter velocity");
scanf("xd",&v);
   printf ("en
                  occeleration");
   scanf("xd",&o);
printf("enter time");
   scanf ("xd",&t);
   v=u+(a*t);
   s=u+(a*t*t);
   printf("\n velocity=xf",v);
printf("\n distance=xf",s);
   getch();
   return 0;
        - 5:8 ----
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
enter velocity 60
enter occeleration 5
enter time 4
 velocity=20358.000000
 distance=1154.000000_
```

```
Window Help
     File Edit Search Run Compile Debug Project Options
  include<stdio.h>
 #include<conio.h>
int main()
   float am, hm, a, b;
   clrscrO;
   printf("enter two number"); scanf("xfxf",&a,&b);
   am=(a+b)/2;
                                                          П
   hm=(a*b/(a+b));
   printf("\n arithmatic=xf",am);
printf("\n harmonic=xf",hm);
   getch():
   return 0;
        - 1:1 -----
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
enter two number 55 22
 arithmatic=38.500000
 harmonic=15.714286_
```

```
Window Help
      File Edit Search Run Compile Debug Project Options
 #include<stdio.h>
 #include<conio.h>
int main()
    int 1,b,h,a,v;
   clrscr();
   printf("enter lenth");
scanf("xd",&1);
   printf("enter breath");
scanf("xd",&b);
printf("enter hight");
   scanf ("zd", &h);
   a=2*(1*b+1*h+b*h);
   v=l*b*h;
   printf("\n surface area=xd",a);
printf("\n valume=xd",v);
   getch();
   return 0;
         = 1:1 =
F1 Help Alt-F8 Next isg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
enter lenth 5
enter breath 4
enter hight 3
 surface area=94
 ∨alume=60_
```

6. Accept a character from the keyboard and display its previous and next character in order. Ex. If character entered is 'd', display "The previous character is c", "The next character is e".

```
File Edit Search Run Compile Debug Project Options
S6.C
                                                                                         Window Help
  #include<stdio.h>
 #include<conio.h>
int main()
{
     char ch;
     clrscr();
     printf("enter character");
scanf("xc",&ch);
printf("\n enterxc",ch);
printf("\n next character xc",ch-1);
printf(\n prevoius character xc",ch+1);
  getch();
  return 0;
        = 15:26 <del>----</del>[]
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
enter characterb
 enterb
 next character a
 prevoius character c
```

```
File Edit Search Run Compile Debug Project Options
S7.0
                                                                            Window Help
 #include<stdio.h>
 #include<conio.h>
int main()
{
    char ch;
    clrscrO;
    printf("enter character");
scanf("%c",&ch);
    printf("\m ascii values=xd",ch);
 getch();
return 0;
               F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu enter charactera
 ascii values=97
```

```
8. Accept the x and y coordinates of two points and compute the distance between the two points.
          File Edit Search Run Compile Debug Project Options
                                                                            Window Help
      #include<stdio.h>
      #include<comio.h>
      int main()
         int x1,y1,x2,y2,d;
         clrscrO;
         printf("enter first point x1 y1"); scanf("xdxd",&x1,&y1); printf("enter second point x2 y2");
         printf C
         scanf ("xdxd", &x2, &y2);
         d=(x2-y1)*(x2-y1)+(y2-y1)*(y2-y1);
         printf("\n distances=xd",d);
         getch();
         return 0;
     }
           — 18:10 ——
    F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
    enter first point x1 y1 45 32
    enter second point x2 y2 23 43
     distances=202_
```

```
File Edit Search Run Compile Debug Project Options
S9.C
                                                               Window Help
 #include<stdio.h>
#include<conio.h>
int main()
{
  int a,b;
  printf("enter two number"); scanf("xdxd",&a,&b);
  a=a+b;
  b=a-b;
  a=a-b;
  printf("\n first number=%d",a);
printf("\n second number=%d",b);
  getch():
  return 0;
enter two number 34 56
first number=56
second number=34_
```

10. A cashier has currency notes of denomination 1. 5 and 10. Accept the amount to be withdrawn from the user and print the total number of currency notes of each denomination the cashier will have to give..

```
File Edit Search Run Compile Debug Project Options
                                                                             Window Help
 #include<stdio.h>
 #include<conio.h>
 int main()
   int w,x,y,z;
   clrscr();
   printf("enter withdraum amount");
scanf("xd",&w);
   x=w/10;
   w=w≥.10;
   y=w/5;
   w=w%5;
   z=w;
   printf("\n 10 notes=\text",\x);
printf("\n 5 notes=\text",y);
printf("\n 1 notes=\text",z);
 getch();
 return 0;
         0;
= 1:1 ——(
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
enter withdrawn amount 5000
 10 notes=500
 5 notes=0
 1 notes=0_
```