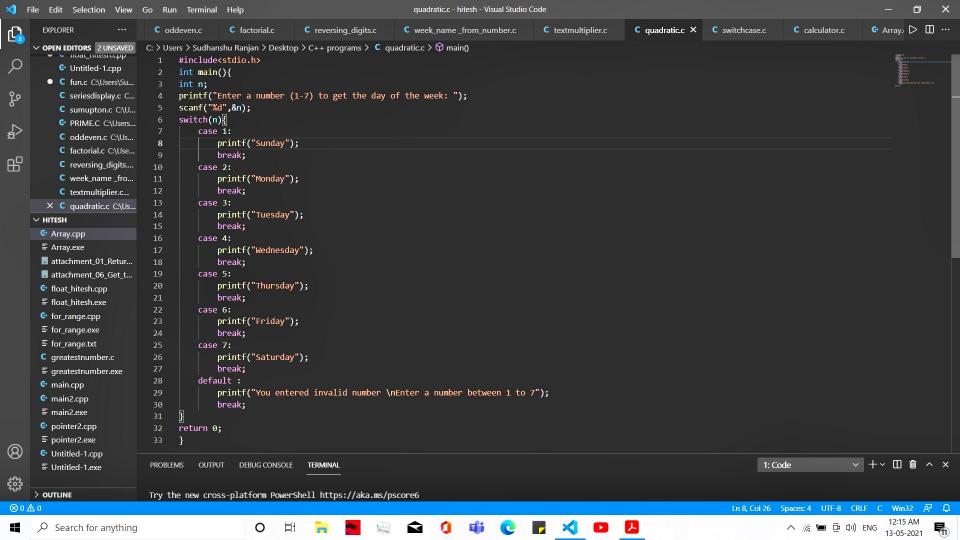
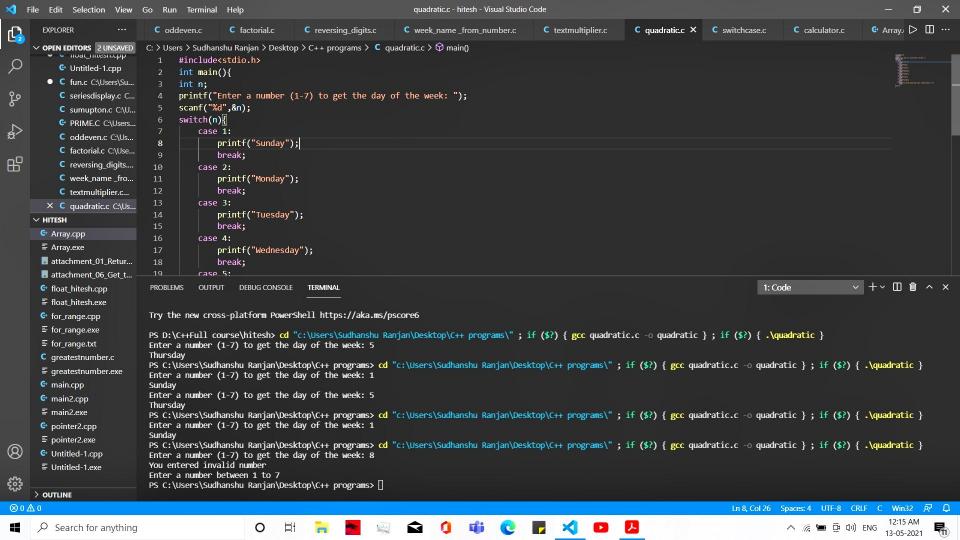
Q.1. Write a i' Program to input week number (1-7) and point the corresponding day of week name using switch case.

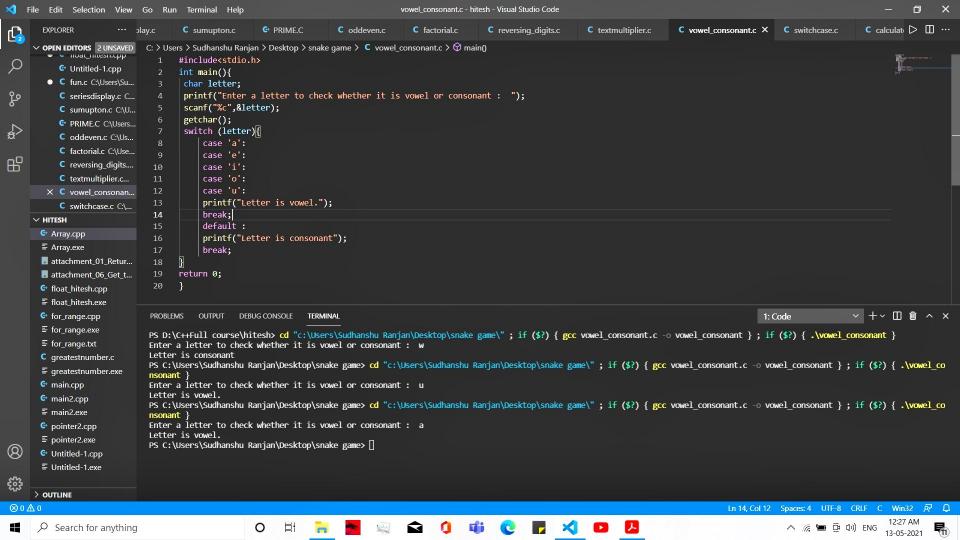
```
# include <stdio.h>
           int main () f
          int n;
Printf (" Enter a number (1-7) to get the day of the
                                 week: 11);
             Bcanf (" ", d", 40 m);
         switch(n) s
        case 1: Print f ("sunday");
                  Break ;
          case 2: print f ("Monday");
                    break;
          Case 3: Print f ("Tuesday");
                    break;
            case 4: printf (" Wednesday");
                    break;
           case 5: printf ("Thursday");
                   break;
            case 6: Printf (" Friday");
                    break;
             Case 7: Printf ("saturday");
                     break;
```

```
default :
    Printf l'you entered invalid number in Enter
         number between 1 to 7");
    break;
Action O;
```





```
2. Write a 'E' language program to check whether
 it is vowel or consonant using switch - case statement
           # include <stdio.h>
           int main () S
            char letter;
         Printf ("Enter a letter to check Whether It is
               Vowel or consonant: 11);
         Scanf ("% c", & letter);
         getchar ();
          Switch (letter) of
          case 'a':
           case b:
           case (i':
          case o':
          case 'v':
           Printf ("Letter is vowel.");
          break;
          default:
          Printf ("Letter is consonant");
          break;
       hetvon o;
```



```
J. Woste a 'c' language program to perform the moltiple
   orithematic operations using switch-case.
      # include (stdio.h)
         int main () of
           char operator;
            double 9, b;
        Printf ("Enter first number: ");
        Scanf (%17", a);
         Printf ("Enter second number: ");
         scanf ("% df", b);
                                    to more
         fflush (stdin);
        Printf ("Enter an Operator (+,-,*,/):");
          Scanf ("% ("), to operator);
         getchar ();
         switch (operator) of
          Case '+':
             Printf ("%.11f + %.11f = %.11f\n", a, b, atb);
             break:
          Case -1:
            Printf("%.11f - %.11f = %.11f\n", a, b, a-b);
             break;
```

```
Case (*):

Printf ("%.11f * %.11f = %.11f, a,b, a*b);
break;

Case (*):

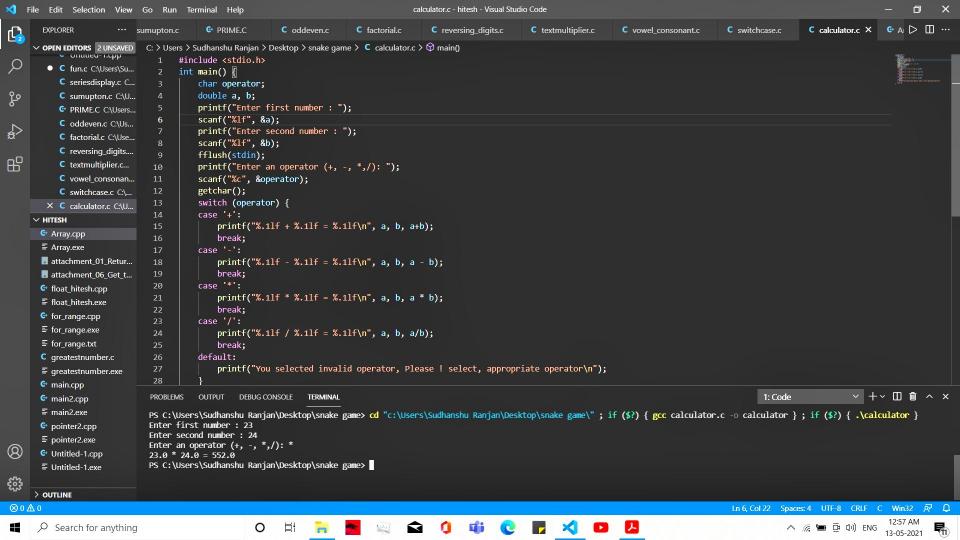
Printf ("%.11f / %.11f = %.11f, a,b, a/b);
break;
```

default:

printf ("you selected invalid operator, please ! seled, appropriate operator \n!!);

hetvan 0;

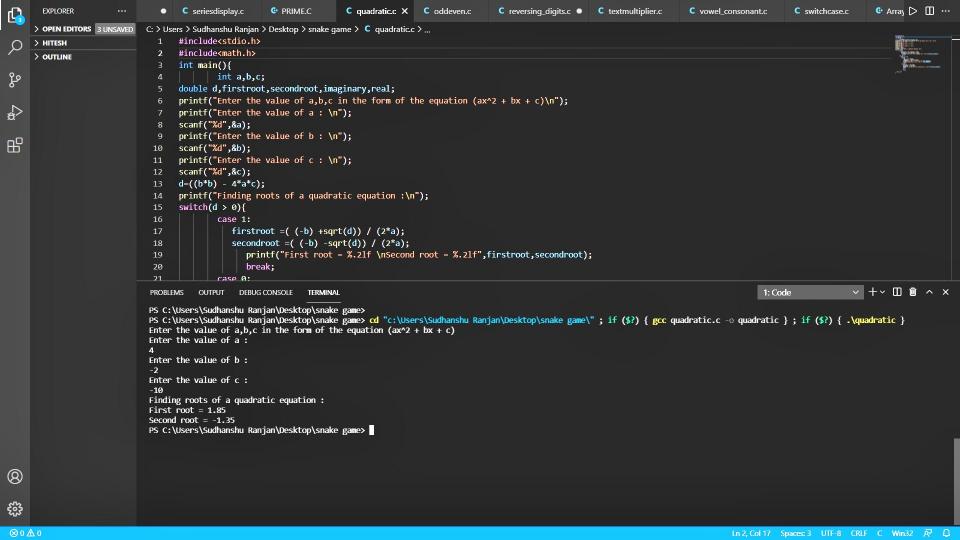
3



```
4. WAP in c to find all roots of a quadratic equation
(art + br +c) using switch case.
         # include < stdio.h>
        #include < math. h>
         int main () {
             int a, b, c;
         double d, firstroot, Secondroot, imaginary;
      Printf ("Enter the value of a, bic in the form of the
        equation (ar12+br+c)\n");
      Printf ("Enter the value of a: \n")?
      scanf ("%d", to a);
       Printf ("Enter the value of b: \m");
       Scanf ( "% d", bb);
       Printf ("Enter the value of c: 1011);
      , Scanf ( " 1/6 d", & C);
         d= ((b*b) - 4*a*c);
        printf ("Finding roots of a quadratic equation: \n");
         switch (d>0) f
              case 1:
                  first root = ((-b) + sqrt(d))/(2+a);
                   Second 400t = ((-b) - sqht (d))/(2 +a);
             Printf ("First goot = %.21f \n second goot =
                    %.21f", firstooot, second root);
```

```
break;
                     bits of greenest a stick
    Case O:
         switch (d(0)$
             case 1:
               neal = (-b)/(2*a);
               imaginary = (squrt(-d))/(2*a);
               Printf ("First noot = %21f + %.21f . in")
                         seal, imaginary);
                Paintf (" First hoot = %.021f + - %.21f i.1),
              case o:
                 frost root = (-b)/(2*a);
                 Secondroot = (-b) (2 + a);
Printf ("First root is %.21f \n second hoot is
                     %.. 21f "forstroot, secondroot);
               break;
                                     : O moules
             break
         retron 0:
```

6 Array ▷ Ⅲ ··· C reversing_digits.c • C textmultiplier.c **EXPLORER** C seriesdisplay.c G PRIME.C C quadratic.c X C oddeven.c C vowel_consonant.c C switchcase.c > OPEN EDITORS 3 UNSAVED C: > Users > Sudhanshu Ranjan > Desktop > snake game > C quadratic.c > ... #include<stdio.h> #include<math.h> > OUTLINE int main(){ int a,b,c; double d,firstroot,secondroot,imaginary,real; printf("Enter the value of a,b,c in the form of the equation $(ax^2 + bx + c)\n"$); printf("Enter the value of a : \n"); scanf("%d",&a); printf("Enter the value of b : \n"); 出 scanf("%d",&b); printf("Enter the value of c : \n"); scanf("%d",&c); d=((b*b) - 4*a*c);printf("Finding roots of a quadratic equation :\n"); switch(d > 0){ 16 case 1: firstroot =((-b) +sqrt(d)) / (2*a); 18 secondroot = ((-b) - sqrt(d)) / (2*a);printf("First root = %.2lf \nSecond root = %.2lf",firstroot,secondroot); break; 20 case 0: switch(d < 0){ case 1: 24 real = (-b)/(2*a); imaginary = (sqrt(-d))/(2*a);26 printf("First root = %.2lf +%.2lf i\n",real,imaginary); printf("Second root = %.2lf -%.2lf i ",real,imaginary); 27 break; 28 case 0: firstroot = (-b)/(2*a); 30 secondroot = (-b)/(2*a); printf(" First root is %.2lf \nsecond root is %.2lf",firstroot,secondroot); break; 34 break; 36 return 0; 8 38 £33 **⊗**0 **∧** 0 Ln 2. Col 17 Spaces: 3 UTF-8 CRLF C Win32 № 🚨



```
5. WAP in c to find whether a given number is
      even or odd using switch case.
              # include (stdio-h)
              int main () &
               int n;
            Printf ("Enter a number to find out if it is even
            scant ("%d", ton);
           switch (n == 0) f
                Case 1: (des 16 and) Ares 4
                  Printf ("The entered number is zero.");
                  break ?
                Case 0:
                  Switch (n % 2 == 0) f
   . m/bs : St Braden
                      Case 1:
 Paintf ("The entered number is even.");
 . Totale: 21 exalour out break; o neitodistion? ) this
: ( Let a ten all bros Case o: or don't priling ) I take
                       Printf ("The entered number is odd.");
                       break;
```

