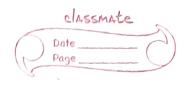Name   Bagda Shashank

En. No.   92100133020

(2)
```c
#include <stdio.h>
int main ()
{
    int a,b,c,d,e ;
    float f ;

    printf ("\n Enter  Mark - 1 =  ");
    scanf ("%d", &a);
    printf ("\n Enter Mark- 2 =  ");
    scanf ("%d", &b);
    printf ("\n Enter Mark- 3 =  ");
    scanf ("%d", &c);
    printf ("\n Enter Mark- 4 =  ");
    scanf ("%d", &d);
    printf ("\n Enter Mark- 5 =  ");
    scanf ("%d", &e);

    f = (a+b+c+d+e)/5 ;

    printf ("\n You got %.2f percentage", f);
```

```c
if (f > 70  &&  f <= 100)
{
    printf ("\n Distinction");
}
else if (f >= 60)
{
    printf ("\n  First Class ");
}
else if (f >= 50)
{
    printf ("\n Second Class");
}
else if (f >= 40)
{
    printf ("\n Pass");
}
else
{
    printf ("Failed");
}
return 0;
}
```

```c
(3)    #include <stdio.h>
       int main ()
       {
            float a, b, c, d ;

            printf ("\n Enter hardness of steel = ");
            scanf (" %.f", &a);
            printf ("\n Enter carbon of steel = ");
            scanf (" %.f", &b);
            printf ("\n Enter tensile of steel = ");
            scanf (" %.f", &c);

            if (a>50 && b<0.7 && c>5500)
            {
                printf ("\n A Grade");
            }
            else if (c>5500 && b<0.7)
            {
                printf (" C Grade");
            }
            else if (a>50 && b<0.7)
            {
                printf (" B Grade");
            }
            else if (a>50 && c>5500)
            {
                printf (" D Grade");
            }
            else if (a>50 || b<0.7 || c>5500)
            {
                printf (" E Grade");
            }
```

```
(3) ⟹    else
         {
             printf (" F Grade");
         }
         return 0;
     }
```

```c
(4)  # include <stdio.h>
     int main ()
     {
         int  a, b, c, d, e, g = 5;

         printf (" Entero  maroks of all 5 subject ;  ");
         scanf ("%d  %d  %d  %d  %d ", &a, &b, &c, &d, &e);

         if (a >= 40)
         {
             printf ("\n You passed subject A"),
         }
         else
         {
             printf (" \n You failed subject A");
             g-- ;
         }


         if (b >= 40) {
             printf ("\n You passed subject B"),
         }
         else {
             printf ("\n You failed subject B");
             g-- ;
         }
```
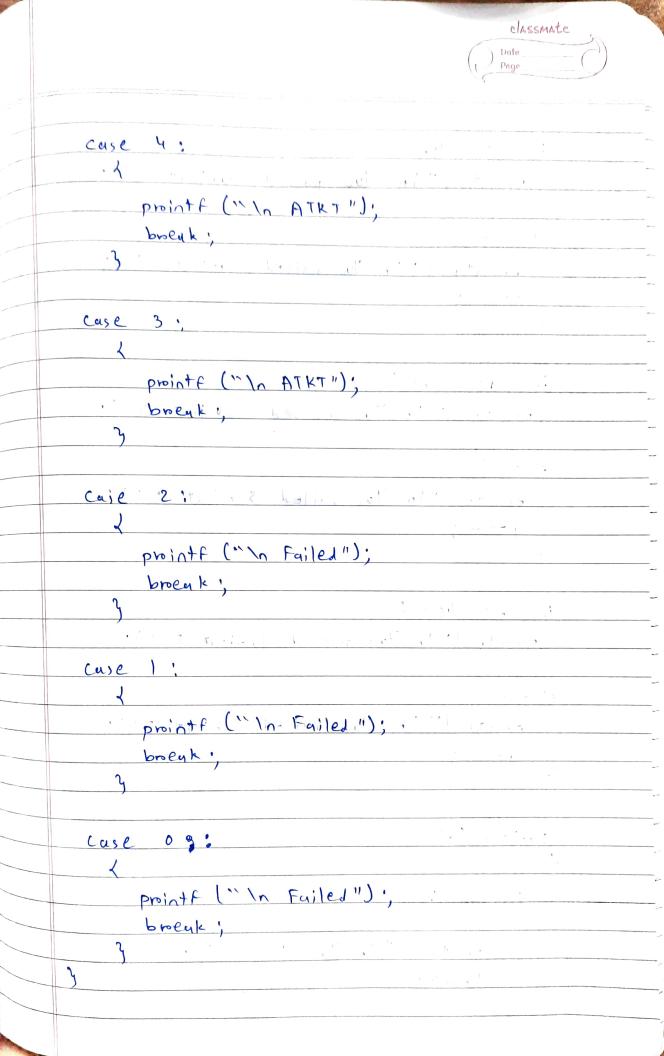
```c
if (c >= 40) {
    printf ("\n You passed subject C");
}
else {
    printf ("\n You failed subject C");
    g--;
}

if (d >= 40) {
    printf ("\n You passed subject D");
}
else {
    printf ("\n You failed subject D");
    g--;
}

if (e >= 40) {
    printf ("\n You passed subject E");
}
else {
    printf ("\n You failed subject E");
    g--;
}

switch (g)
{
    case 5:
    {
        printf ("\n You Passed");
        break;
    }
```

```c
case 4 :
  {
      prointf ("\n ATKT");
      breuk;
  }


case 3 :
  {
      prointf ("\n ATKT");
      breuk;
  }


case 2 :
  {
      prointf ("\n Failed");
      breuk;
  }


case 1 :
  {
      prointf ("\n Failed");
      breuk;
  }


case 0 g:
  {
      prointf ("\n Failed");
      breuk;
  }
}
```

```
    return 0;
}
```

(1)

```c
#include <stdio.h>
int main()
{
    int bno = 1234;
    float up1 = 25000.00, up2 = 12500.00,
          up3 = 450.0, up4 = 2.5, disc = 12.50;
    int q1 = 1, q2 = 2, q3 = 5, q4 = 5;
    float sum;

    printf("\n========== Welcome to Billing System
              ==========");

    printf("\n Enter Bill no : ");
    scanf("%d", &bno);

    printf("\n Enter Computer Price : ");
    scanf("%f", &up1);
    printf("\n Enter Computer Quantity : ");
    scanf("%f", &q1);

    printf("\n Enter Mobile Price : ");
    scanf("%f", &up2);
    printf("\n Enter Mobile Quantity : ");
    scanf("%f", &q2);

    printf("\n Enter Calculator Price : ");
    scanf("%f", &up3);
    printf("\n Enter Calculator Quantity : ");
    scanf("%f", &q3);
```

```c
printf (" Enter Pencil Price : ");
scanf ("%f", &up4);
printf ("\n Enter Pencil Quantity : ");
scanf ("%f", &q4);

sum = (up1 * q1) + (up2 * q2) + (up3 * q3) + (up4 * q4);

printf ("\n");
printf ("%.28s%.s\n", "    ", "    ", "XYZ Mant Pvt LTD 1");
printf ("%.23s%.s\n", "    ", "    ", "311 top, PQR Shopping Mall,");
printf ("%.32s%.s\n", "    ", "    ", "Rajkot");
printf (" = = = = = = = = = = = = = = = = = = = = = = = = =\n");
printf ("%.s%.06d%.56s\n", "Bill No:", bno, "Date : 30-Nov-2020");
printf (" = = = = = = = = = = = = = = = = = = = = = = \n");
printf ("%.-4s %.-24s%.-15s %.-5s %.-15s\n", "No",
                "Item Name", "Unit Price", "Qty", "Total");
printf ("%.4d %.-24s%.15,2f %.5d %.12.2f\n", 1,
                "Computer", up1, q1, up1*q1);
```

// Do the highlighted statement 3 more time & use
// different parameter For Mobile, Calculator & Pencil.

```c
printf (" = = = = = = = = \n");
printf ("%.-60s%.10.2f\n", "Total Amount : ", sum);
printf ("%.-63s%.6.2f%.%.\n", "Discount : ", disc);
printf (" = = = = = = = = = = = \n");
printf ("%.-60s%.10.2f\n", "Amount to be Paid : ",
                sum - ((sum*disc)/100));

return 0;
}
```