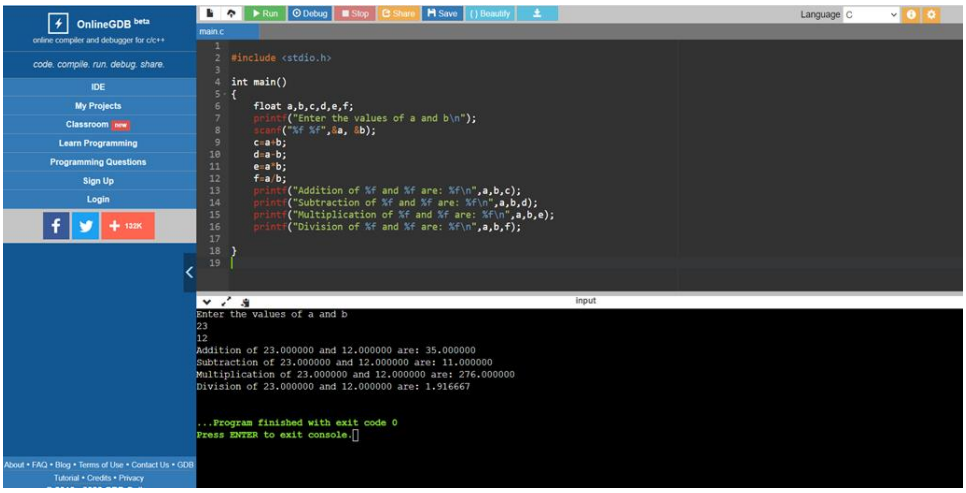
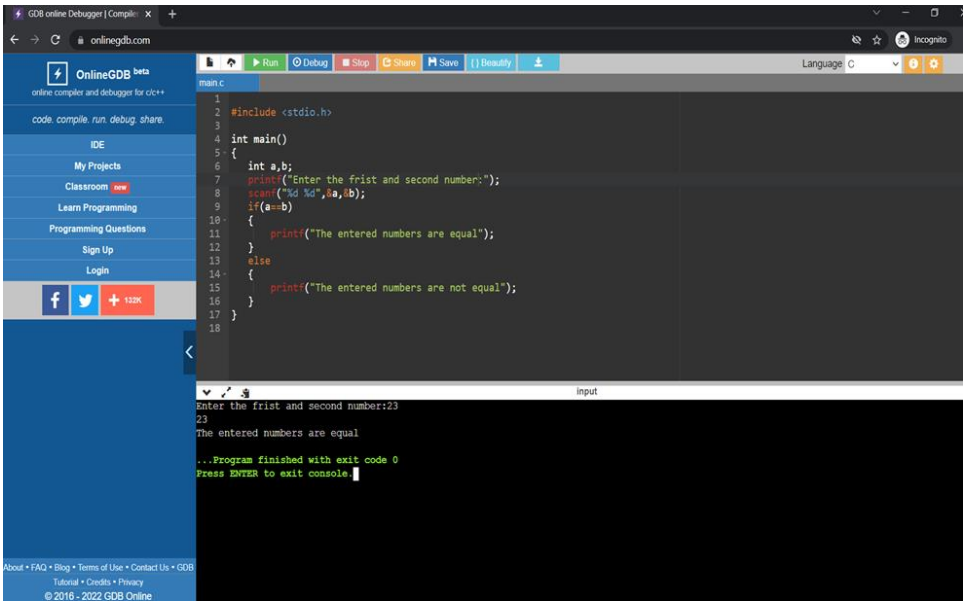
C program for Simple Caliculator

```
#include <stdio.h>

int main()

{

   float a,b,c,d,e,f;

   printf("Enter the values of a and b\n");

   scanf("%f %f",&a, &b);

   c=a+b;

   d=a-b;

   e=a*b;

   f=a/b;

   printf("Addition of %f and %f are: %f\n",a,b,c);

   printf("Subtraction of %f and %f are: %f\n",a,b,d);

   printf("Multiplication of %f and %f are: %f\n",a,b,e);

   printf("Division of %f and %f are: %f\n",a,b,f);

}
```



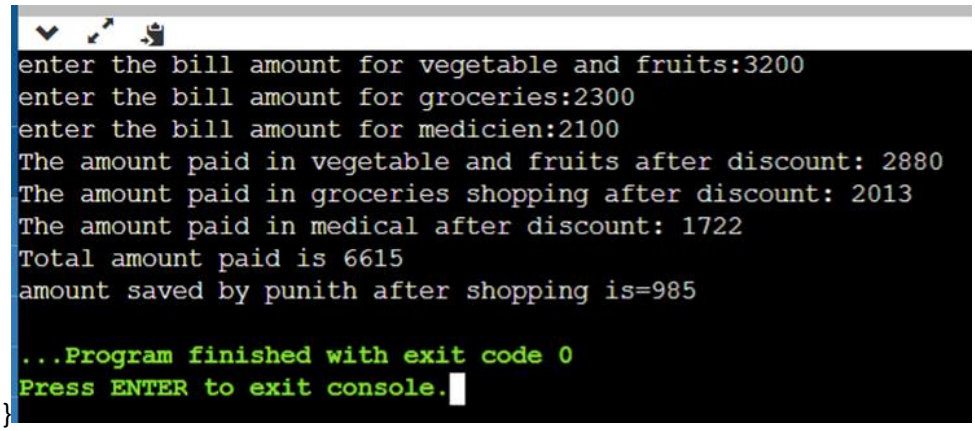
C program to check if two numbers are equal.



C program to check the discount of a person.

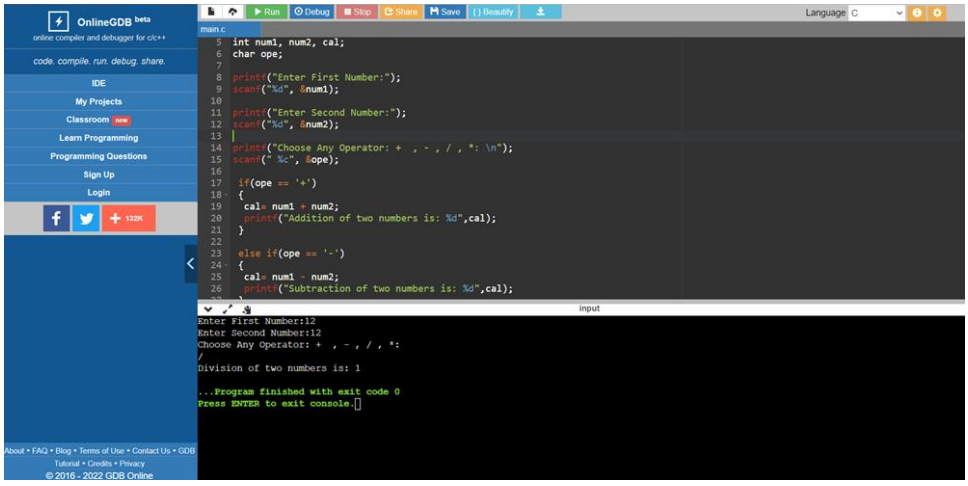
```
#include <stdio.h>
int main()
{
   int m,n,p,m1,n1,p1;
   int total;
   int dm1,dn1,dp1;
   int saved;
   printf("enter the bill amount for vegetable and fruits:");
   scanf("%d",&m);
   printf("enter the bill amount for groceries:");
   scanf("%d",&n);
   printf("enter the bill amount for medicien:");
   scanf("%d",&p);
   dm1=(m*10)/100;
   dn1=(12.5*n)/100;
   dp1=(18*p)/100;
```

```
m1=m-dm1;
n1=n-dn1;
p1=p-dp1;
printf("The amount paid in vegetable and fruits after discount: %d\n",m1);
printf("The amount paid in groceries shopping after discount: %d\n",n1);
 printf("The amount paid in medical after discount: %d\n",p1);
 total=m1+n1+p1;
 printf("Total amount paid is %d\n",total);
 saved=(m+n+p)-(m1+n1+p1);
 printf("amount saved by punith after shopping is=%d",saved);
```

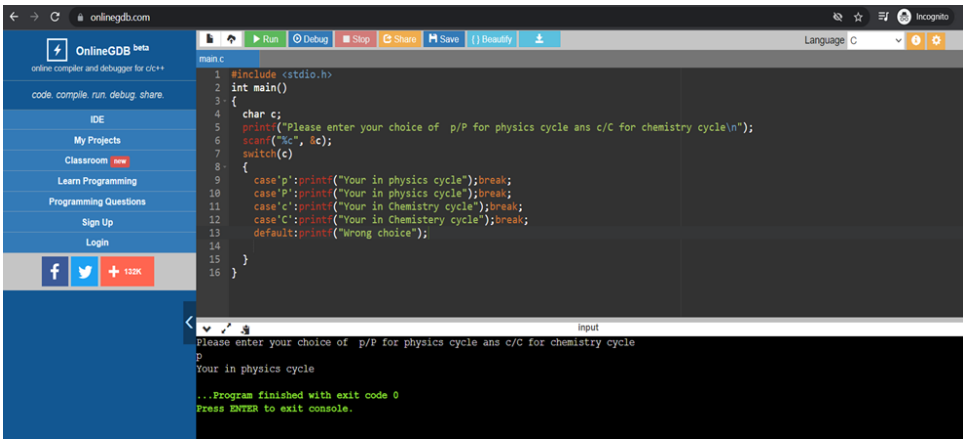


}

C program for a simple calculator using if else statements.



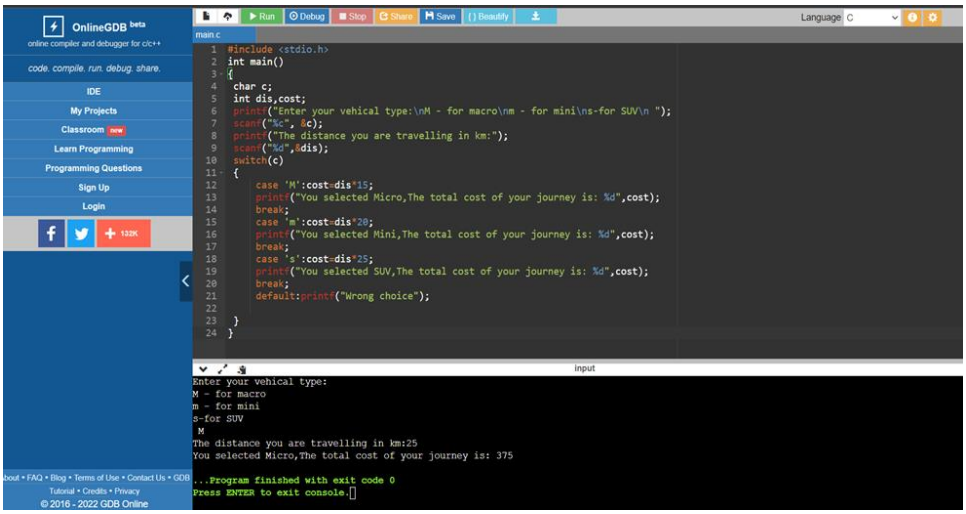
Write a c program for p-for physical cycle and c-for chemistry cycle using swich case.



Write a c program for a student who has rank below 15000 and has a percentage higher than 75 using if else statements.

```
#include <stdio.h>

int main()

{

 int rank;

 float persentage;

 printf("Enter your persentage: ");

 scanf("%f",&persentage);

 printf("Enter your rank: ");

 scanf("%d",&rank);

 if(rank<15000 && persentage>75)

 {

    printf("Your are elegible");

 }

 else

 {

    printf("Your not elegible");

 }

}
```

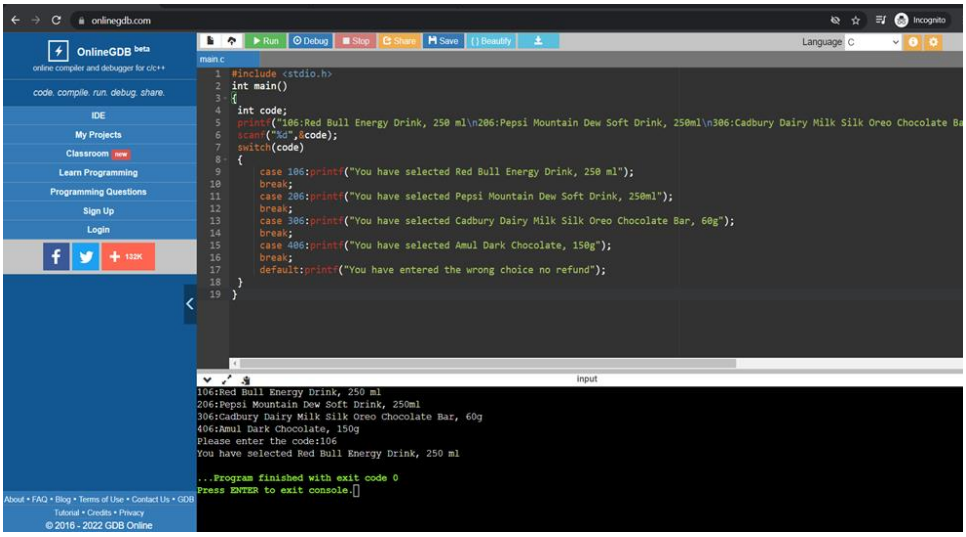
Q8.) Write a c program for M-for macro, m-for mini, S-for suv and calculate the price for the distance travelled by respective vehical.



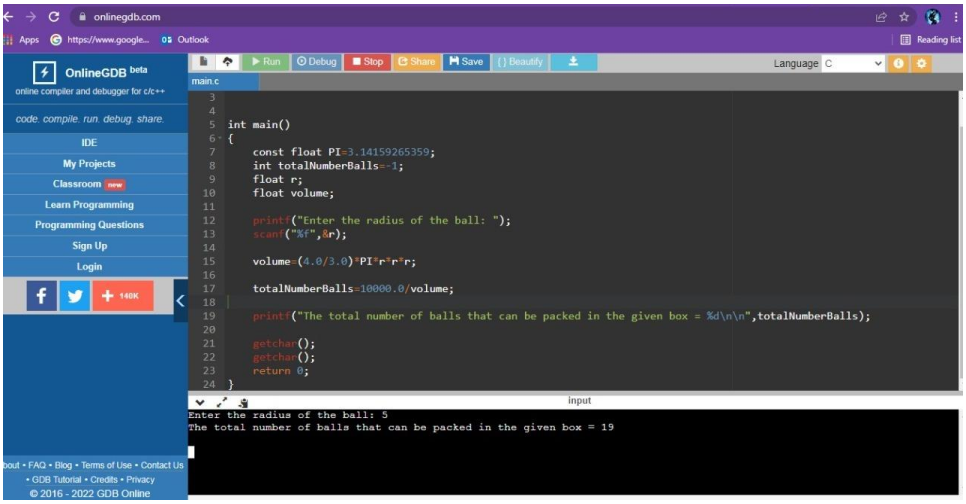

```
#include <stdio.h>

int main()

{

 char c;

 int dis,cost;

 printf("Enter your vehical type:\nM - for macro\nm - for mini\ns-for SUV\n ");

 scanf("%c", &c);

 printf("The distance you are travelling in km:");

 scanf("%d",&dis);

 switch(c)

 {

    case 'M':cost=dis*15;

    printf("You selected Micro,The total cost of your journey is: %d",cost);

    break;

    case 'm':cost=dis*20;

    printf("You selected Mini,The total cost of your journey is: %d",cost);

    break;

    case 's':cost=dis*25;
```

```
    printf("You selected SUV,The total cost of your journey is: %d",cost);
    break;
    default:printf("Wrong choice");

 }
}
```

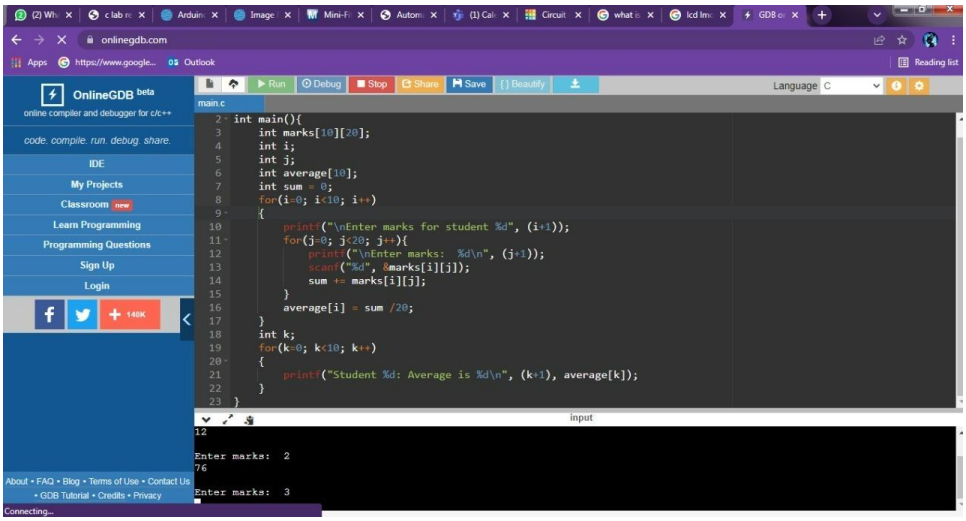
Write a c program for a simple vending machine Using swich case. #include <stdio.h>



C program to find no.pf balls

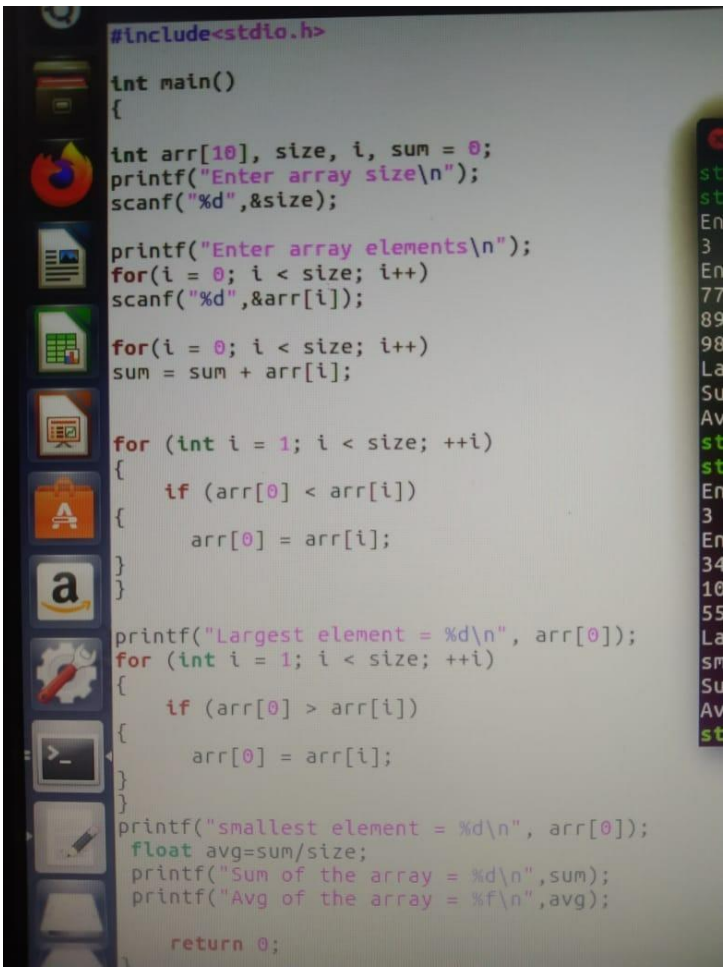


Addition of Matrices




```
#include <stdio.h>
int main()

{
 int r, c, a[100][100], b[100][100], sum[100][100], i, j;
 printf("Enter the number of rows (between 1 and 100): ");
 scanf("%d", &r);
 printf("Enter the number of columns (between 1 and 100): ");
 scanf("%d", &c);

 printf("\nEnter elements of 1st matrix:\n");
 for (i = 0; i < r; ++i)
  for (j = 0; j < c; ++j)

{
printf("Enter element a%d%d: ", i + 1, j + 1);
scanf("%d", &a[i][j]);

}

 printf("Enter elements of 2nd matrix:\n");

 for (i = 0; i < r; ++i)

for (j = 0; j < c; ++j) {
 printf("Enter element b%d%d: ", i + 1, j + 1);
    scanf("%d", &b[i][j]);
  }

 // adding two matrices
 for (i = 0; i < r; ++i)
  for (j = 0; j < c; ++j) {
    sum[i][j] = a[i][j] + b[i][j];
```

```
    }

  // printing the result
  printf("\nSum of two matrices: \n");
  for (i = 0; i < r; ++i)
    for (j = 0; j < c; ++j) {
      printf("%d   ", sum[i][j]);
      if (j == c - 1) {
        printf("\n\n");
      }
    }

  return 0;
}
```




```
#include<stdio.h>

int main()
```

```
{


int arr[10], size, i, sum = 0;
printf("Enter array size\n");
scanf("%d",&size);
printf("Enter array elements\n");
for(i = 0; i < size; i++)
scanf("%d",&arr[i]);
for(i = 0; i < size; i++)
sum = sum + arr[i];
for (int i = 1; i < size; ++i)
{
   if (arr[0] < arr[i])
{
     arr[0] = arr[i];
}
}
printf("Largest element = %d\n", arr[0]);
for (int i = 1; i < size; ++i)
{
   if (arr[0] > arr[i])
{
     arr[0] = arr[i];
}
}
printf("smallest element = %d\n", arr[0]);
 float avg=sum/size;
 printf("Sum of the array = %d\n",sum);
 printf("Avg of the array = %f\n",avg);
```

```
return 0;
}
```