

```
#include <stdio.h>
int main()
{
    struct student s;
    {
        int student-id;
        int age;
        int marks;
    }
    int flag;
    struct student stud[10];
    printf("Enter the student-id:");
    scanf("%d", &stud.student-id);
    printf("Enter the age:");
    scanf("%d", &stud.agemarks);
    printf("Enter the marks:");
    scanf("%d", &stud.marks);
    if ((stud.age > 20) && (0 <= stud.marks <= 100))
    {
        printf("data is valid \n");
        flag = 0;
    }
    else
    {
        printf("data is invalid \n");
        if ((flag == 0) && (stud.marks >= 65))
        {
            printf("student qualified for admission \n");
        }
    }
}
```



```
printf("student is not qualified for admission\n");
```

};

O/p: Enter the student-Id : 003

Enter the age : 24

Enter the marks : 99

data is valid.

Student qualified for admission.

Enter the student-Id : 029

Enter the age : 19

Enter the marks : 89

data is Invalid

Student is not qualified for admission.

Enter the student-Id : 001

Enter the age : 22

Enter the marks : 60

data is Invalid

student is not qualified for admission.


```

3. #include <stdio.h>
#include <conio.h>
int main ()
{
    int i, j, count = 0, n, num = 1;
    printf("Enter the value of n:");
    scanf("%d", &n);
    for (i = 1; i <= n; i++)
    {
        printf("\n");
        for (j = 1; j <= i; j++)
        {
            printf("%d", count++);
            printf("\n");
        }
        return 0;
    }
}

```

O/p : Enter the value of n : 4

```

1
2 3
4 5 6
7 8 9 10

```


4. #include <stdio.h>

int main()

{

int marks1, marks2;

printf("Enter the CIE marks : ");

scanf("%d", &marks1);

printf("Enter the SEE marks : ");

scanf("%d", &marks2);

if((marks1 > 20) && (marks1 <= 50))

{
printf("grade is F");

}

else if (marks2 < 35)

{
printf("grade is F");

}

else if (marks2 >= 90)

{
printf("grade is A");

}

else if (marks2 >= 80)

{

printf("grade is B");

}


```

else if ( q mark2 >= 70)
{
    printf("Grade is C");
}
else if ( percentage marks2 >= 60)
{
    printf("Grade is D");
}
else if ( marks 2 >= 40)
{
    printf("Grade is E \n");
}
else
{
    printf("Grade is F", marks 2);
}

```

O/P: Enter the CIE marks: 45

Enter the SEE marks: 70.

grade is C.

Enter the CIE marks: 45

Enter the SEE marks: 35

grade is F.

O/P: Enter the CIE marks : 15

Grade is F.

5. #include <stdio.h>

```
int main( ) checkprimenumber (int n);  
{  
    int main()
```

```
    int n1, n2, i, flag;
```

```
    printf("Enter 2 positive integers:");
```

```
    scanf("%d %d", &n1, &n2);
```

```
    printf("Prime numbers between %d and %d are:",  
           n1, n2);
```

```
    for (i = n1 + 1; i < n2; ++i)
```

```
    {  
        flag = checkprimenumber (i);
```

```
        if (flag == 1)
```

```
            printf("%d", i);
```

```
    }
```

```
    return 0;
```

```
}
```

```
int checkprimenumber (int n)
```

```
{
```

```
    int j, flag = 1;
```



```
7. #include <stdio.h>
```

```
#include <string.h>
```

```
void main()
```

```
{
```

```
    char name[100][100];
```

```
    int stud, l, c;
```

```
    int i = 0;
```

```
    int j = 0;
```

```
    int k = 0;
```

```
do
```

```
{
```

```
    printf("Enter the number of students :");
```

```
    scanf("%d", &stud);
```

```
    printf("Enter name of student and course
```

```
    \n 1. for internet of things \n
```

```
    2. for advanced java and J2EE
```

```
    \n 3. for advanced data structure \n");
```

```
    for (l = 0; l < stud; l++)
```

```
    {
```

```
        scanf("%s %d", name[i], &c);
```

```
    }
```

```
    for (l = 0; l < stud; l++)
```

```
    {
```



```
if (c == 1)
```

```
    i++;
```

```
if (c == 2)
```

```
    j++;
```

```
if (c == 3)
```

```
    k++;
```

```
}
```

```
}
```

```
while ((i < 30) || (j < 30) || (k < 30));
```

```
printf ("students in internet of things : %.d", i);
```

```
printf ("students in advanced java and J2EE : %.d", j);
```

```
printf ("students in advanced data structure : %.d", k);
```

```
}
```

o/p: