

## FOC PROJECT:TIMETABLE GENERATOR

```
#include<stdio.h>

#include<string.h>

void teachers();

void room();

void subjects();

void typing();

void print();

struct timetable

{

char

syt[1000],tyt[1000],btecht[1000],sysub[1000],tysub[1000],btechsub[

1000],sytype[20],tytype[20],btechtype[20];

int systclassroom,tyclassroom,btechclassroom;

};

struct timetable t[6];

int main()

{int i=0,y;

for(y=0;y<7;y++)

{

while(i<6)

{

teachers();
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```
room();
subjects();
typing();
i++;
}
}
print();
return 0;
}

void teachers()
{int z;
l1:for(z=0;z<3;z++)
{
    printf("enter the name of teacher for %d class of sy\n",z+1);
    gets(t[z].syt);
}
for(z=0;z<3;z++)
{
    printf("enter the name of teacher for %d class of ty\n",z+1);
    gets(t[z].tyt);
}
for(z=0;z<3;z++)
{
    printf("enter the name of teacher for %d class of btech\n",z+1);
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        gets(t[z].btecht);
    }
    for(z=0;z<3;z++)
    {
        if(strcmp(t[z].syty,t[z].tyt)!=0 && strcmp(t[z].tyt,t[z].btecht)!=0)
        {
        }
        else
        {printf("name of faculty is repeated pls reenter the name\n");
        goto l1;
        }
    }
}

void room()
{int z;
l2:for(z=0;z<3;z++)
{
    printf("enter the no. of classroom for %d class of sy\n",z+1);
    scanf("%d",&t[z].syclclassroom);
}
for(z=0;z<3;z++)
{
    printf("enter the no. of classroom for %d class of ty\n",z+1);
    scanf("%d",&t[z].tyclassroom);
}
}

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}
for(z=0;z<3;z++)
{
    printf("enter the no. of classroom for %d class of btech\n",z+1);
    scanf("%d",&t[z].btechclassroom);

    if(t[z].tyclassroom==t[z].syclassroom || t[z].btechclassroom==t[z
].tyclassroom)
    {
        printf("the classroom no. of different classes are identical
reenter the room no.\n");
        goto l2;
    }
}
}

void subjects()
{int z;
for(z=0;z<3;z++)
{
    printf("enter the name of subject of %d class of sy\n",z+1);
    gets(t[z].sysub);
}
for(z=0;z<3;z++)
{

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        printf("enter the name of subject of %d class of ty\n",z+1);
        gets(t[z].tysub);
    }
    for(z=0;z<3;z++)
    {
        printf("enter the name of subject of %d class of btech\n",z+1);
        gets(t[z].btechsub);
    }
}

void typing()
{int z;
for(z=0;z<3;z++)
{
    printf("enter the type of class for %d class of sy\n",z+1);
    gets(t[z].sytype);
}
for(z=0;z<3;z++)
{
    printf("enter the type of class for %d class of sy\n",z+1);
    gets(t[z].sytype);
}
for(z=0;z<3;z++)
{
    printf("enter the type of class for %d class of sy\n",z+1);

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        gets(t[z].sytype);
    }
}

void print()
{
    int z,i=1;
    for(z=0;z<18;z+=3)
    {
        printf("%d period of 1st class of sy is\n",i);
        printf("%d\n",t[z].syclassroom);
        puts(t[z].sysub);
        puts(t[z].syt);
        puts(t[z].sytype);
        i++;
    }
    i=1;
    for(z=1;z<18;z+=3)
    {
        printf("%d period of 2nd class of sy is\n",i);
        printf("%d\n",t[z].syclassroom);
        puts(t[z].sysub);
        puts(t[z].syt);
        puts(t[z].sytype);
        i++;
    }
}

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}
i=1;
for(z=2;z<18;z+=3)
{
    printf("%d period of 3rd class of sy\n",i);
    printf("%d\n",t[z].syclassroom);
    puts(t[z].sysub);
    puts(t[z].syty);
    puts(t[z].sytype);
    i++;
}
i=1;
for(z=0;z<18;z+=3)
{
    printf("%d period of 1st class of ty is\n",z+1);
    printf("%d\n",t[z].tyclassroom);
    puts(t[z].tysub);
    puts(t[z].tyty);
    puts(t[z].tytype);
    i++;
}
i=1;
for(z=1;z<18;z+=3)
{

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```
        printf("%d period of 2nd class of ty is\n",i);
        printf("%d\n",t[z].tyclassroom);
        puts(t[z].tysub);
        puts(t[z].tyt);
        puts(t[z].tytype);
        i++;
    }
    i=1;
    for(z=2;z<18;z+=3)
    {
        printf("%d period of 3rd class of ty is\n",i);
        printf("%d\n",t[z].tyclassroom);
        puts(t[z].tysub);
        puts(t[z].tyt);
        puts(t[z].tytype);
        i++;
    }
    for(z=0;z<18;z+=3)
    {
        printf("%d period of 1st class of btech is\n",z+1);
        printf("%d\n",t[z].btechclassroom);
        puts(t[z].btechsub);
        puts(t[z].btecht);
        puts(t[z].btechtype);
    }
```



```
}  
i=1;  
for(z=1;z<18;z+=3)  
{  
    printf("%d period of 2nd class of btech is\n",i);  
    printf("%d\n",t[z].btechclassroom);  
    puts(t[z].btechsub);  
    puts(t[z].btecht);  
    puts(t[z].btechtype);  
    i++;  
}  
i=1;  
for(z=2;z<18;z+=3)  
{  
    printf("%d period of 3rd class of btech is\n",i);  
    printf("%d\n",t[z].btechclassroom);  
    puts(t[z].btechsub);  
    puts(t[z].btecht);  
    puts(t[z].btechtype);  
    i++;  
}  
}
```