

MATRIC NO : 18/ENG02/083

1)#include<stdio.h>

```
#include<conio.h>
int main(void)
{
int n;
clrscr();
printf("enter any year: ");
scanf("%d",&n);
if(n%4==0)
printf("year is a leap year");
else
printf("year is not a leap year");
return 0;
}
```

2)#include<stdio.h>

```
#include<conio.h>

int main()
{
int a,b,c;
clrscr();
printf("enter value of a, b & c: ");
scanf("%d%d%d",&a,&b,&c);
if((a>b)&&(a>c))
printf("a is greatest");
if((b>c)&&(b>a))

printf("b is greatest");
if((c>a)&&(c>b))
printf("c is greatest");
return 0;
}
```

3) #include <stdio.h>

```
int main ()
```

```
{
```

```
int s1, s2, s3, s4, s5, s6, s7, cu1, cu2, cu3, cu4, cu5, cu6, cu7, gps1, gps2, gps3, gps4, gps5, gps6, gps7,
sum, stotal, total = 700;
```

```
float per;

float gpa;

float totalgp;

float sumc;

printf("Enter mark of 1st subject:\n");

scanf("%d",&s1);

printf("Enter Course Unit:\n");

scanf("%d",&cu1);

printf("Enter mark of 2nd subject:\n");

scanf("%d",&s2);

printf("Enter Course Unit:\n");

scanf("%d",&cu2);

printf("Enter mark of 3rd subject:\n");

scanf("%d",&s3);

printf("Enter Course Unit:\n");

scanf("%d",&cu3);

printf("Enter mark of 4th subject:\n");

scanf("%d",&s4);

printf("Enter Course Unit:\n");

scanf("%d",&cu4);

printf("Enter mark of 5th subject:\n");

scanf("%d",&s5);

printf("Enter Course Unit:\n");

scanf("%d",&cu5);

printf("Enter mark of 6th subject:\n");
```

```
scanf("%d",&s6);
printf("Enter Course Unit:\n");
scanf("%d",&cu6);
printf("Enter mark of 7th subject:\n");
scanf("%d",&s7);
printf("Enter Course Unit:\n");
scanf("%d",&cu7);
if(s1 >= 70)
{
    gps1 = 5;
}
else if(s1 >= 60 && s1 <= 69)
{
    gps1 = 4;
}
else if(s1 >= 50 && s1 <= 59)
{
    gps1 = 3;
}
else if(s1 >= 45 && s1 <= 49)
{
    gps1 = 2;
}
else if(s1 >= 40 && s1 <= 44)
{
```

```
    gps1 = 1;
}
else if(s1 >= 0 && s1 <= 39 )
{
    gps1 = 0;
}
if(s2 >= 70)
{
    gps2 = 5;
}
else if(s2 >= 60 && s2 <= 69)
{
    gps2 = 4;
}
else if(s2 >= 50 && s2 <= 59)
{
    gps2 = 3;
}
else if(s2 >= 45 && s2 <= 49)
{
    gps2 = 2;
}
else if(s2 >= 40 && s2 <= 44)
{
    gps2 = 1;
```

```
}  
else if(s2 >= 0 && s2 <= 39 )  
{  
    gps2 = 0;  
}  
if(s3 >= 70)  
{  
    gps3 = 5;  
}  
else if(s3 >= 60 && s3 <= 69)  
{  
    gps3 = 4;  
}  
else if(s3 >= 50 && s3 <= 59)  
{  
    gps3 = 3;  
}  
else if(s3 >= 45 && s3 <= 49)  
{  
    gps3 = 2;  
}  
else if(s3 >= 40 && s3 <= 44)  
{  
    gps3 = 1;  
}
```

```
else if(s3 >= 0 && s3 <= 39 )
```

```
{
```

```
    gps3 = 0;
```

```
}
```

```
if(s4 >= 70)
```

```
{
```

```
    gps4 = 5;
```

```
}
```

```
else if(s4 >= 60 && s1 <= 69)
```

```
{
```

```
    gps4 = 4;
```

```
}
```

```
else if(s4 >= 50 && s4 <= 59)
```

```
{
```

```
    gps4 = 3;
```

```
}
```

```
else if(s4 >= 45 && s4 <= 49)
```

```
{
```

```
    gps4 = 2;
```

```
}
```

```
else if(s4 >= 40 && s4 <= 44)
```

```
{
```

```
    gps4 = 1;
```

```
}
```

```
else if(s4 >= 0 && s4 <= 39 )
```

```
{  
    gps4 = 0;  
}  
if(s5 >= 70)  
{  
    gps5 = 5;  
}  
else if(s5 >= 60 && s5 <= 69)  
{  
    gps5 = 4;  
}  
else if(s5 >= 50 && s5 <= 59)  
{  
    gps5 = 3;  
}  
else if(s5 >= 45 && s5 <= 49)  
{  
    gps5 = 2;  
}  
else if(s5 >= 40 && s5 <= 44)  
{  
    gps5 = 1;  
}  
else if(s5 >= 0 && s5 <= 39 )  
{
```

```
    gps5 = 0;
}
if(s6 >= 70)
{
    gps6 = 5;
}
else if(s6 >= 60 && s6 <= 69)
{
    gps6 = 4;
}
else if(s6 >= 50 && s6 <= 59)
{
    gps6 = 3;
}
else if(s6 >= 45 && s6 <= 49)
{
    gps6 = 2;
}
else if(s6 >= 40 && s6 <= 44)
{
    gps6 = 1;
}
else if(s6 >= 0 && s6 <= 39 )
{
    gps6 = 0;
```



```
    }  
if(s7 >= 70)  
{  
    gps7 = 5;  
}  
else if(s7 >= 60 && s7 <= 69)  
{  
    gps7 = 4;  
}  
else if(s7 >= 50 && s7 <= 59)  
{  
    gps7 = 3;  
}  
else if(s7 >= 45 && s7 <= 49)  
{  
    gps7 = 2;  
}  
else if(s7 >= 40 && s7 <= 44)  
{  
    gps7 = 1;  
}  
else if(s7 >= 0 && s7 <= 39 )  
{  
    gps7 = 0;  
}
```

```
sum = s1 + s2 + s3 + s4 + s5 + s6 + s7;

per = (sum * 100) / total;

printf("Percentage =%f\n", per);

sumc = (cu1 + cu2 + cu3 + cu4 + cu5 + cu6 + cu7);

totalgp = ((cu1 * gps1) + (cu2 * gps2) + (cu3 * gps3) + (cu4 * gps4) + (cu5 * gps5) + (cu6 * gps6) + (cu7
* gps7));

gpa = totalgp / sumc;

printf("Your total Course Unit =%f\n", sumc);

printf("Your GPA =%f\n",gpa);

if (gpa >= 4.5)
{
    printf("Grade = A");
}

else if(gpa >= 3.5 && gpa < 4.5)
{
    printf("Grade = B");
}

else if(gpa >= 2.5 && gpa < 3.5)
{
    printf("Grade = B-");
}

else if(gpa >=1.5 && gpa < 2.5)
{
    printf("Grade = C");
}

else
```

```
{  
    printf("Failed");  
}  
  
return 0;  
}
```