**MATRIC NO : 18/SCI01/048**

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;

}