

SAINI TECHNOLOGIES



ADVANCED C PROGRAMMING WITH SAINI TECHNOLOGIES

Sushil Kumar Saini

Email: Sushilsaini04@gmail.com

Mo. 9896470047

// Control Statement

// Conditional Unconditional

// if, ifelse, Loop, Switch

// goto functions

//simple if

```
void main()
{
int marks;
clrscr();
printf("Enter the Marks");
scanf("%d",&marks);
if(marks>=40)
printf("Pass");
else
printf("Re-Appear");
getch();
}
```

Output

Enter the Marks 40

Pass

// Control Statement

// Conditional Unconditional

// if, ifelse, Loop, Switch

// goto functions

//simple if

```
void main()
{
int marks;
clrscr();
printf("Enter the Marks");
scanf("%d",&marks);
if(marks>=40)
{
printf("Pass");
printf("\n Can take Admission");
}
else
{
printf("Re-Appear");
printf("\n Can't take Admission");
}
getch();
}
```

Output

Enter the Marks 40

Pass

Can Take Admission

// Control Statement

//ladder if

```
void main()
{
int a,b;
clrscr();
printf("Enter the a and b");
scanf("%d%d",&a,&b);
if(a>b)
printf("\nA is greater");
else
if(b>a)
printf("B is greater");
else
printf("Both are equal");
getch();
}
```

Output

Enter the a and b 34 54
B is greater

//Nested if

```
void main()
{
int a,b,c;
clrscr();
printf("Enter the a b and c values");
scanf("%d%d%d",&a,&b,&c);
if(a>b)
{
if(a>c)
printf("\nA is greater");
else
printf("C is greater");
}
else
if(b>c)
printf("B is greater");
else
printf("C is greater");
getch();
}
```

Output

Enter the a b and c values 34 54 32
B is greater

//Ladder if and Logical operator

```
void main() {
int a,b,c;
clrscr();
printf("Enter the a and b");
scanf("%d%d%d",&a,&b,&c);
if(a>b && a>c)
    printf("\nA is greater");
else
if(b>a && b>c)
    printf("B is greater");
else
if(c>a&& c>b)
printf("C is greater");
else
if(a==b && a>c)
printf("A and B is equal");
else
if(a==c && a>b)
printf("A and C is equal");
else
if(b==c && b>a)
printf("B and C is equal");
else
printf("All are equal");
getch(); }
```

Output

Enter the a b and c values 34 54 32
B is greater

//Multiple if

```
void main() {
int a,b,c;
char ch;
clrscr();
printf("Enter the a and b");
scanf("%d%d",&a,&b);
printf("Enter opr + - * /");
scanf(" %c",&ch);
if(ch=='+')
c=a+b;
if(ch=='-')
c=a-b;
if(ch=='*')
c=a*b;
if(ch=='/')
c=a/b;
printf("The Result of %d %c %d = %d",a,ch,b,c);
getch(); }
```

Output

Enter the a b 40 30
Enter opr + - * / +
The Result of 40 + 30 = 70

Program to find the Grade of Steel

```
void main()
{
int a,c;
float b;
clrscr();
printf("Enter the value of hardness");
scanf("%d",&a);
printf("\nEnter the value of carbon content");
scanf("%f",&b);
printf("\nEnter the value of tensile strength");
scanf("%d",&c);
if(a>50 && b<0.7 && c>5600)
printf("Grade 10");
else
if(a>50 && b<0.7 && c<=5600)
printf("Grade 9");
else
if(a<=50 && b<0.7 && c>5600)
printf("Grade 8");
else
if(a>50 && b>=0.7 && c>5600)
printf("Grade 7");
else
if(a>50 || b<0.7 || c>5600)
printf("Grade 6");
else
if(a<=50 && b>=0.7 && c<=5600)
printf("Grade 5");
getch();
}
```

Output

```
Enter the value of hardness 60
Enter the value of Carbon content 0.4
Enter the value of Tensile Strength 5800
Grade 10
```

Program to find whether a triangle is valid or not

```
void main()
{
int a,b,c;
clrscr();
printf("Enter the value of first side");
scanf("%d",&a);
printf("Enter the value of second side");
scanf("%d",&b);
printf("Enter the value of third side");
scanf("%d",&c);
if((a>b && a>c && b+c>a)||b>c && b>a && a+c>b)||c>a && c>b && a+b>c))
printf("Triangle is valid");
else
printf("Invalid Triangle");
getch();
}
```