control statements -

1. selection statements

2. loop statements

3. jump statements

selection statements -

1. if

2. if-else

3. nested if else

4. switch case

#include <stdio.h>

int main()

{

if (0)

{

printf("True");

printf("\nprogram completed");

}

return 0;

}

#include <stdio.h>

int main()

{

if (10)

{

printf("True");

}

else

{

printf("False");

}

return 0;

}

#include <stdio.h>

int main()

{

if (10)

printf("True");

else

printf("False");

}

int main()

{

int a,b;

printf("\n enter 1st number:");

scanf("%d", &a);

printf("\n enter 2nd number:");

scanf("%d", &b);

if(a>b)

printf("\n A is greater than B");

else

printf("\n B is greater than A");

}

**nested if-else**  
  
#include<stdio.h>  
  
int main()  
{  
int a=123, b=123;  
  
if(a==b)  
printf("\n A and B are equal");  
else if(a>b)  
printf("\n A is greater than B");  
else  
printf("\n B is greater than A");  
  
}  
  
}

**// WAP to find greatest from 2 number. get the input from user.**

#include <stdio.h>

int main()

{

int a,b;

printf("\n enter 1st number:");

scanf("%d", &a);

printf("\n enter 2nd number:");

scanf("%d", &b);

if(a!=b)

{

if(a>b)

printf("\n A is greater than B");

else

printf("\n B is greater than A");

}

else

{

printf("\n A and B are equal");

}

}

// WAP to find greatest from 2 number. get the input from user.

#include <stdio.h>

int main()

{

int a,b;

printf("\n enter 1st number:");

scanf("%d", &a);

printf("\n enter 2nd number:");

scanf("%d", &b);

if(a==b)

{

printf("\n A and B are equal");

}

else

{

if(a>b)

printf("\n A is greater than B");

else

printf("\n B is greater than A");

}

}

**// WAP to find greatest from 3 number. get the input from user.**

#include <stdio.h>

int main()

{

int a,b,c;

printf("\n enter 1st number:");

scanf("%d", &a);

printf("\n enter 2nd number:");

scanf("%d", &b);

printf("\n enter 3rd number:");

scanf("%d", &c);

// flow of execution 1-16 17 18 19 27

if(a>b)

{

if(a>c)

printf("\n A is greatest");

else

printf("\n C is greatest");

}

else if(b>c)

printf("\n B is greatest");

else

printf("\n C is greatest");

}

**// WAP to find greatest from 3 number with the help of logical operators.**

#include <stdio.h>

int main()

{

int a,b,c;

printf("\n enter 1st number:");

scanf("%d", &a);

printf("\n enter 2nd number:");

scanf("%d", &b);

printf("\n enter 3rd number:");

scanf("%d", &c);

if(a>b && a>c)

printf("\n A is greatest");

else if(b>c)

printf("\n B is greatest");

else

printf("\n C is greatest");

}

#include <stdio.h>

int main()

{

int a;

int b;

int c;

printf("enter three no.:");

scanf("%d%d%d",&a, &b, &c);

if(a>b || a>c)

printf("\n A is greatest");

else if(b>c)

printf("\n B is greatest");

else if(c>b)

printf("\n C is greatest");

else

printf("Values are Equal");

return 0;

}

**//** WAP to find greatest from 3 number with the help of logical operators.

#include <stdio.h>

int main()

{

int a,b,c;

printf("\n enter 1st number:");

scanf("%d", &a);

printf("\n enter 2nd number:");

scanf("%d", &b);

printf("\n enter 3rd number:");

scanf("%d", &c);

if(a==b)

printf("\n A and B are equal");

else

{

if(a>b && a>c)

printf("\n A is greatest");

else if(b>c)

printf("\n B is greatest");

else

printf("\n C is greatest");

}

}

#include <stdio.h>

int main()

{

int a;

printf("Enter a number (1-4): ");

scanf("%d",&a);

if(a==1)

printf("\n Number is One");

else if(a==2)

printf("\n Number is Two");

else if(a==3)

printf("\n Number is Three");

else if(a==4)

printf("\n Number is Four");

else

printf("Invalid Input");

}

Switch Case

// switch case

#include <stdio.h>

int main()

{

int value;

printf("enter a number 1-4: ");

scanf("%d", &value);

switch(value)

{

case 1:

printf("Number is one");

break;

case 2:

printf("Number is Two");

break;

case 3:

printf("Number is three");

break;

case 4:

printf("Number is four");

break;

default:

printf("\n Invalid input");

}

}

Q: #include <stdio.h>

int main()

{

char value;

printf("enter a number a-d: ");

scanf("%c", &value);

switch(value)

{

case 'a':

printf("Number is one");

break;

case 'b':

printf("Number is Two");

break;

case 'c':

printf("Number is three");

break;

case 'd':

printf("Number is four");

break;

default:

printf("\n Invalid input");

}

}

// switch case

#include <stdio.h>

int main()

{

char value, a=20, b=2;

printf("\nPress + for addition ");

printf("\nPress - for sub ");

printf("\nPress \* for mul ");

printf("\nPress / for div ");

printf("\nchoose your operation: ");

scanf("%c", &value);

switch(value)

{

case '+':

printf("Addition is %d ", a+b);

break;

case '-':

printf("Sub = %d ", a-b);

break;

case '\*':

printf("Mul = %d", a\*b);

break;

case '/':

printf("Div = %d", a/b);

break;

default:

printf("\n Invalid input");

}

}

// switch case

#include <stdio.h>

int main()

{

int value, a=20, b=2;

printf("enter a number 1-4: ");

scanf("%d", &value);

switch(value)

{

case 1:

printf("Addition is %d ", a+b);

break;

case 2:

printf("Sub = %d ", a-b);

break;

case 3:

printf("Mul = %d", a\*b);

break;

case 4:

printf("Div = %d", a/b);

break;

default:

printf("\n Invalid input");

}

}

//Nested Switch Case

#include <stdio.h>

int main()

{

int x=2;

int a=20, b=4;

char c;

switch(x)

{

case 1:

printf("\nPress + for Addition ");

printf("\nPress - for Substraction ");

printf("\nPress \* for Multiplication ");

printf("\nPress / for Division ");

printf("\nMake your selection: ");

scanf("%c",&c);

switch(c)

{

default:

printf("\n Invalid Input");

break;

case '+':

printf("\n Addition = %d", a+b);

break;

case '-':

printf("\n Sub = %d", a-b);

break;

case '\*':

printf("\n Mul = %d", a\*b);

break;

case '/':

printf("\n Div = %d", a/b);

}

break;

case 2:

printf("\n testing");

break;

}

}