**Flavors of c**

**NAME OF C PLATFORM**

ANSI C Unix

Dynamic Linux

Turbo C Ms-Dos

Borland C Windows

Microsoft C Windows

Pro C Oracle

**When we compile a program two background files are generatd in turbo C/dev C**

1. college. C source code

2. college. bak backupfile // when u execute second time it will be generated

3. college. obj object file

4. college. exe executable file

When we send .exe file to windows os to mac os it will not be generated ,bcoz c is platform dependent this is the difference from java

The things to need care while developing

Variable declarations:

I - P - 0

Gets() - to read a string with multiple words

Scanf(“[\n%s]”,name);

Fflush(stdin);

-% u - for unsigned integers

%f - float

%c - char

%s - string

%ld - long int

%u - unsigned

%i - int

Escape Sequences:

\n - new line

\t - new tab

\b - backspace

\a -alert

\\ - backslash

\’ - single quote

\” -double quotes

#include <stdio.h>

int main()

{

printf("\"Hello World\"");

return 0;

}

Output:

“hello world”

Operators :

Operators are two types: binary operators and unary operators

Arthimetical operators - +,-,\*,/,%

Relational operators - <,>,<=,>=,=.==

Arithmetic assignment +=,-=,\*=,/=

Conditonal/ Ternary ?,:

+,- are binary operators but times is also used as unary operators

#include <stdio.h>

int main()

{

int a=10;

int b=++a;

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

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

return 0;

}

Output

11

11

int main()

{

int a=10;

int b=a++;

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

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

return 0;

}

Output

11

10

#include <stdio.h>

int main()

{

int n;

printf("\n pl enter 9:");

scanf("%d",&n);

if(n==9)// comparsion

printf("tq");

if(n=9)//assignement and it will assign and it will be excute

printf("sorry");

return 0;

}

#include <stdio.h>

int main()

{

int n;

printf("\n pl enter number:");

scanf("%d",&n);

printf(n%2==0 ? "even":"odd");

return 0;

}

#include <stdio.h>

int main()

{

int n;

printf("\n pl enter number:");

scanf("%d",&n);

printf(n>0? "postive":n<0? " negative":"s is zero");

return 0;

}

#include <stdio.h>

int main()

{

int a,b,c;

printf("\n pl enter number:");

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

printf( a==b && b==c ?"all are equal": a>b&&a>c ? "a is big":b>c? " b is big": "c is big");

return 0;

}

Misc Opertors

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Control Statements:

1. conditional control statements

2. if

3. if else

4. else if(nested if)

II. case control statements

1. Switch

Type Casting:

Type cating are two types:

1. Implicit type casting
2. 2. Explicit type casting

#include <stdio.h>

int main()

{

int a=2.3;

float b=10;

char c=65;

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

printf("\n b=%f",b);

printf("\n c=%c",c);

return 0;

}

Output:

A=2

B=10.000

C=a

ASCII Values:

48 to 57 for 0 to 9

65-90 up

97-122 lower case

int main()

{

char name [20];

int rollno,sub1,sub2,sub3,sum;

float avg;

printf("enter a name of the student;");

scanf("%s",name);

printf("enter a roll no");

scanf("%d",&rollno);

printf("enter a subject marks");

scanf("%d%d%d",&sub1,&sub2,&sub3);

sum=sub1+sub2+sub3;

avg=(sub1+sub2+sub3/3);

printf("%d",sum);

printf("\n %f",avg);

return 0;

}

#include <stdio.h>

int main()

{

int rno,s1,s2,s3,tot;

char name[20];

float avg;

printf("enter a name of the student;");

scanf("%s",name);

printf("enter a roll no");

scanf("%d",&rno);

printf("enter a subject marks");

scanf("%d%d%d",&s1,&s2,&s3);

tot=s1+s2+s2+s3;

avg=(float)tot/3;

printf("\n %d",tot);

printf("\n %f",avg);

}

#include <stdio.h>

int main()

{

int i;

for(i=0;i<256;i++)

printf("\n %d \t %c ",i,i);

if(count==25)// this is for turbo c/ c++ to stop scrolling

{

Getch();

Count=0;

}

}

Main is a user defined functions

#include <stdio.h>

#include<stdlib.h>

int main()

{

char input;

printf("enter the input");

scanf("%c",&input);

if(input>=65&&input<=90)

printf("uppercase");

if(input>=97&&input<=122)

printf("lowercase");

if(input>=48&&input<=57)

printf("digit");

return 0;

}

#include <stdio.h>

#include<stdlib.h>

int main()

{

int num;

printf("enter a given number");

scanf("%d",&num);

if(num%5==0)

printf("number is divible by 5");

else

printf("number is not divible by 5");

}

Leap year pogram

#include <stdio.h>

#include<stdlib.h>

int main()

{

int a,b;

char ch;

printf("\n enter two values:");

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

printf("enter your operator of your choice");

ch=getche();

//fflush(stdin);

//scanf("%c",&ch);

switch(ch)

{

case '+': printf("%d",a+b);

break;

case '-':printf("%d",a-b);

break;

default:printf("invalid");

}

return 0;

}

#include <stdio.h>

#include<stdlib.h>

int main()

{

int n;

printf("enter the input number");

scanf("%d",&n);

switch(n)

{

case 1:printf("monday");

break;

case 2:printf("tuesday");

break;

case 3:printf("wednesday");

break;

case 4:printf("thursday");

break;

case 5:printf("friday");

break;

case 6:printf("saturdat");

break;

case 7:printf("sunday");

break;

default:printf("invalid");

}

}

#include <stdio.h>

#include<stdlib.h>

int main()

{

int i;

for(i=1;i<=20;i++);

printf("\n %d",i);

}

Output:

21