Flavours of C

Name of C Platform
ANSI Unix
Dynamic Linux
TurboC MS-DOS
Borland C Windows

Microsoft C Windows

Pro C Oracle

Background flies in TurboC/DevC

College C
 College.bak
 College.obj
 College.exe
 Source code
 backup file
 object file
 executable file

4. College.exe - executable file

Each language should have it's process done in different language

Variable Declarations

I - P - 0

get() - to read a string with multiple words
scanf("[\n%s]",name);

fflush(stdin); ---->(used above scanf statement)

Format specifiers

%d int

%f float

%c char

%s string

%ld long int

7010 long int

%u unsigned

%i int

Escape Sequences

\n - new line \t - new tab

```
backspace
\b
∖a
               alert
\\
               backslash
\'
               single quote
       - double quotes
\"
1. Print hello world within doulbe quotes?
/* print "Hello World"
#include <stdio.h>
int main()
{
       printf("\"Hello World\"");
       return 0;
o/p: "Hello World"
int main(int argc,char*argv[])
{
       printf("\"Hello World\"");
       return (0);
}
2.
/* post increment demo*/
#include <stdio.h>
main()
int a,b;
a=10;
b=++a;
printf("\n a=%d",a);
printf("\n b=%d",b);
}
o/p:
a=11
b=11
```

```
3.
/* post increment demo*/
#include <stdio.h>
main()
{
int a,b;
a=10;
b=a++;
printf("\n a=%d",a);
printf("\n b=%d",b);
o/p:
a=11
b=10
4.
5.print even or odd
#include <stdio.h>
main()
{
int n;
printf("\n plz enter a no: ");
scanf("%d",&n);
printf(n%2==0? "even" :"odd");
o/p:
plz enter a no : 2
plz enter a no : 3
#include <stdio.h>
main()
{
int n;
printf("\n plz enter a no: ");
scanf("%d",&n);
printf(n>0? "positive" : n<0 ? "negitive" :"it is zero" );</pre>
}
```

```
7. to print a,b,c which is bigger in one line
#include <stdio.h>
main()
{
int a,b,c;
printf("\n enter a,b,c values: ");
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");
}
conditional/ternary
?:
misc operators
->
&
control statements
1. conditional control statements
~ if
~ if else
~ else if (nested if)
2.case control statements
~ switch
Type casting
1.implicit type casting
/*implicit type casting */
#include <stdio.h>
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);
}
o/p:
a=2
b=10.000000
c=A
2.explicit type casting
9.
/*ASCII DEMO
0 to 255 total 256 ASCII values*/
#include <stdio.h>
main()
{
int var=65;
char ch='a';
printf("\n var= %d",var);
printf("\n var=%c",var);
printf("\n ch= %c",ch);
printf("\n ch= %d",ch);
}
10.
/*ASCII DEMO-2
to print ASCII chart*/
#include <stdio.h>
main()
{
int i;
for(i=0;i<256;i++)
printf("\n %d \t %c",i,i);
}
10.1in turbo c
/*ASCII DEMO-2
to print ASCII chart*/
#include <stdio.h>
main()
{
```

```
int icount=0;
for(i=0;i<256;i++,count++)
if (count==20)
{printf("\n press any key");
printf("\n %d \t %c",i,i);
get()
count=0
}
11.
#include <stdio.h>
main()
{
       int rno,s1,s2,s3,tot=0;
       char name[20];
       float avg=0;
       printf("\n enter rno: ");
       scanf("%d",&rno);
       printf("\n enter name: ");
       scanf("%s",&name);
       printf("enter 3 sub marks: ");
       scanf("%d %d %d",&s1,&s2,&s3);
tot=s1+s2+s3;
avg=(float)tot/3;
printf("\n roll no: %d",rno );
printf("\n student name: %s",name );
printf("\n total: %d",tot );
printf("\n average: %f",avg );
}
o/p:
enter rno: 2
enter name: hari
```

enter 3 sub marks: 20 30 40

```
roll no: 2
student name: hari
total: 90
average: 30.000000
12.
#include <stdio.h>
#include<stdlib.h>
void main(int argc,char *argv[])
{
        int a,b;
        if(argc<0)
        printf("\n invalid no of args");
        else
        {
        a=atoi(argv[1]);
        b=atoi(argv[2]);
        printf("\n sum is : %d",a+b);
  }
}
13.to check the given character is upper casde or lowercase or digit.
#include<stdio.h>
#include<stdlib.h>
main()
{
       char n;
print("enter anything");
       scanf("%c")
if(n>=97&&n<=122)
printf("lower case");
else if(n > = 65 \& n < = 90)
printf("uppercase");
else
printf("digit");
}
```

```
14.to check whether a number is divisible by 5 and 11.
15.check the given year is leap year or not.
#include<stdio.h>
main()
{
int year;
printf("\n enter a year: ");
scanf("%d",&year);
if((year%4==0 &7 year%100!=0) || year%400==0)
printf("\n leap year");
else
printf("\n not a leap year");
}
16.
#include<stdio.h>
main()
{
int a,b;
char ch;
printf("\n enter 2 values : ");
scanf("%d %d",&a,&b);
printf("\n enter operator of your choice: ");
ch=getch();
//fflush(stdin);
//scanf("%c",&ch);
switch(ch)
{
       case '+' :printf("\n sum :%d",a+b);break;
       case '-' :printf("\n difference :%d",a-b);
default:printf("\n invalid choice...!");
```