EXPERIMENT NO.3

SOLUTIONS:-

Simple if :

1.Input any number and print "Hello, World!", if that number is greater than 50.

ans-

```
#include<stdio.h>

#include<conio.h>

void main()

{int a;

clrscr();

printf("enter any number\n");

scanf("%d",&a);

if(a>50)

{printf("hello world");

}

getch();

}
```

If-else :-

2. Find the maximum number among two.

```
Ans-#include<stdio.h>

#include<conio.h>

void main()

{int a,b;

clrscr();

printf("enter any two numbers\n");
```

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

if(a>b)

{printf("a is max");

}else

{printf("bis max");

}

getch();

}
```

Nested if:-

3 Input three numbers and find maximum between them

ans-

```c
#include<stdio.h>

#include<conio.h>

void main()

{int a,b,c;

clrscr();

printf("enter any three numbers\n");

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

if(a>b && a>c)

{printf("a is max");

}else

{if(b>a && b>c)

{printf("b is max");

}else

{if(c>b && c>a)

{printf("c is max");

}
```

```
}

}

getch();

}
```

Else-if ladder:-

4. Input marks of five subjects from user, calculate percentage and print grade

Percentage > 90% : Grade A

Percentage > 80% : Grade B

Percentage > 70% : Grade C

Percentage > 60% : Grade D

Percentage > 40% : Grade E

Percentage < 40% : Grade F

ans-

```
#include<stdio.h>

#include<conio.h>

void main()

{int eng,maths,phy,chem,it,percentage;

clrscr();

printf("enter english mark\n");

printf("enter maths mark\n");

printf("enter phy mark\n");

printf("enter chem mark\n");

printf("enter it mark\n");

scanf("%d%d%d%d%d",&eng,&maths,&phy,&chem,&it);

percentage=(eng+maths+phy+chem+it)/100;

if(percentage>90)

{printf("a grade");}
```

else if(80<percentage<90)

{ printf("b grade");}

else if(70<percentage<80)

{printf("c grade");}

else if(60<percentage<70)

{printf("d grade");}

else if(40<percentage<60)

{printf(" e grade");}

else if(percentage<40)

{printf(" f grade");}

else

{printf("you are fail");}

getch();

}

Switch case:-

5. Input two numbers from user and implement arithmetic calculator using

switch case

case 1:-Addition

case 2:-substation

case 3:- multiplication

case 4:-division

case 5: Modulus

default case:- print "wrong choice" .

ans ---

#include<stdio.h>

#include<conio.h>

void main()

{int a,b,c;

```c
char ch;

clrscr();

printf("enter two numbers\n");

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

fflush(stdin);

printf("enter character\n");

scanf("%c",&ch);

switch(ch)

{case'+':

c=a+b;

printf("sum is=%d",c);

break;
```