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Branch: Electrical Engineering

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			SIGN
1	Program to print a content using printf		
2	Program to display month name by using switch		
	statement		
3	Program to use while loop		
4	Program to use do-while loop		
5	Program to use for loop		
6	Program to use nested for loop		
7	Program to do Arithmetic Calculation		
8	Program to use different data Data		
	9		
	Types(Integer,Float,Char)		
9	Program to do Logical and Relational Operator		
10	Program to use If-Else Statements		
11	To make a Fibonacci series		
12	Program to perform increment and decren		
13	Program to perform conditional statements, i		
	ladder		
	iaduci		
14	To find factorial of a given number		

Program to print a content using printf

```
#include<stdio.h>
int main()
{
printf("EEA2, Roll no.= 20016065, program to print favourite poem\n"
"\n"
               How Doth The Little Crocodile \n"
"\n"
"How doth the little crocodile \n"
"Improve his shining tail, \n"
"And pour the waters of nile \n"
"On every golden scale!\n"
"\n"
"How cheerfully he seems to grin, \n"
"How neatly spreads his claws,\n"
"And welcomes little fishes in, \n"
"With gently smiling jaws! \n"
"\n"
```

```
" -Lewis Carroll");
return 0;
}
Output:
```

Program to display month name by using switch statement

PROGRAM CODE:

```
#include<stdio.h>
int main()
{
    int month;
```

```
printf ("EE A2, Roll No.= 2016065, Display month name by using switch
statement\n");
       printf("Enter the month number\n");
       scanf("%d",&month);
       switch(month)
         case 1:
             printf ("January");
              break;
         case 2:
             printf ("February");
             break;
         case 3:
             printf ("March");
             break;
         case 4:
             printf ("April");
             break;
         case 5:
             printf ("May");
             break;
         case 6:
             printf ("June");
             break;
         case 7:
```

printf ("July");

```
break;
         case 8:
             printf ("August");
             break;
         case 9:
             printf ("September");
             break;
         case 10:
             printf ("October");
             break;
         case 11:
             printf ("November");
             break;
         case 12:
             printf ("December");
             break;
         default:
             printf (" Error! month number is incorrect ");
       }
       return 0;
}
OUTPUT:
```

```
#includecstdio.h>
int main()

int main()

for int month;

printf ("Et A2, Roll No.= 2016065,Display month name by using switch statement\n");

switch(month)

for scan("%"a", **moorth);

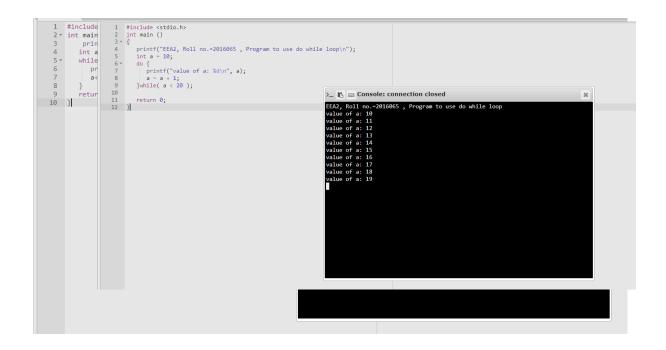
switch(month)

{
    case 1:
        printf ("Tebruary");
        break;
    case 2:
        printf ("February");
        break;
    case 3:
        printf ("April");
        break;
    case 4:
        printf ("April");
        break;
    case 6:
        printf ("May");
        break;
    case 6:
        printf ("June");
        break;
    case 7:
        printf ("June");
        break;
    case 8:
        printf ("August");
        break;
    case 9:
        printf ("August");
        break;
    case 9:
        printf ("September");
        break;
        case 9:
        printf ("September");
        break;
        case 9:
        printf ("September");
        break;
        case 9:
        printf ("September");
        break;
        case 9:
        printf ("September");
        break;
        case 9:
        printf ("September");
        break;
        case 9:
        printf ("September");
        break;
        case 9:
        printf ("September");
        printf
```

Program to use while loop

```
//Program to use while Loop
#include <stdio.h>
int main() {
    printf("EEA2 , Roll no.=2016065, Program to use while loop \n");
    int a = 10;
    while( a < 20 ) {
        printf("value of a: %d\n", a);
        a++;
    }
    return 0;
}</pre>
```

Output:



Program to use do-while loop

Program code:

```
#include <stdio.h>
int main ()
{
    printf("EEA2, Roll no.=2016065 , Program to use do while loop\n");
    int a = 10;
    do {
        printf("value of a: %d\n", a);
        a = a + 1;
    } while( a < 20 );
    return 0;
}</pre>
```

Output:

Program to use for loop

```
#include <stdio.h>
int main()
{
    int k,z,p;
    printf("EEA2 , Roll no.=2016065, Program to use for loop \n\n");
    printf("Program to print a table of a given integer\n");
    printf("Enter a number whose table is to be displayed: ");
    scanf("%d", &k);
    for (z = 1; z \le 10; ++z)
    {
        p = k*z;
```

```
printf("%d * %d = %d \n", k, z,p);
}
return 0;
}
```

Practical 6

Program to use nested for loop

```
//program to use nested for loop

#include<stdio.h>

int main()

{

    printf("EEA2 , Roll no.=2016065 , Program to use nested for loop\n");

    printf("To print the a triangle pattern using for loop and nested for loop \n");

    int i,j;
```

```
for(i=1;i<=20;i++)
{
  for(j=1;j<=i;j++)
  {
    printf("#");
  }
  printf("\n");
}
return 0;</pre>
```

Practical-7

Aim: Program to do Arithmetic Calculation

Code:-

```
#include<stdio.h>
int main(void){
int a=15,b=20;
int c=a+b;
printf("\n parkash \nEE A2 2016065\n");
printf("\nValue of a is %d\nValue of b is %d\nThe result for a+b=c and value of c is %d\n",a,b,c);
return 0;}
```

Practical-8

Aim: Program to use different data Data Types(Integer,Float,Char)

Code:-

```
#include<stdio.h>
int main(void) {
  int a = 10,b = 20,c = 30;
  float A = 1.14,B = 2.0001,C = 33.14;
  char var1='X',var2='Y',var3='Z';
  printf("\nparkash \nEE-A2 2016065\n\n");
  printf("Examples of Integers:-%d,%d,%d\n\n",a,b,c);
  printf("Examples of floats:-%f,%f,%f\n\n",A,B,C);
  printf("Examples of Characters:-%c,%c,%c\n\n",var1,var2,var3);
  return 0;}
```

Output:-

```
#includexstdio.h>
2 * int main(void){
3 int a = 10,b = 20,c = 30;
4 float A = 1.14,b = 2.0001,C = 33.14;
5 char var1-X',var2='Y',var3-'Z';
6 printf("Namples of Integers: *\darka, \darka, \da
```

Practical-9

Aim:Program to do Logical and Relational Operators

Code:-

#include <stdio.h>

```
int main() {
    printf("\nparkash \nEE-A2 2016065\n\n");
    int a=10,b=10,c=20;
    printf("a=%d,b=%d,c=%d\n\n",a,b,c);
    printf("|| means OR\n&& means AND\n!means NOT\n");
    printf("Use of Logical And Relational Operators:-\n");
    printf("a==b || a<b is %d\n",a==b || a<b);
    printf("a==b && a<b is %d\n",a==b && a<b);
    printf("a==b || !(a<b) is %d\n",a==b || !(a<b));
    printf("a==b && !(a>c) is %d\n",a==b && !(a>c));
    printf("a==b || !(a>c) is %d\n",a==b && !(a>c));
    return 0;}
```

Practical-10

Aim: Program to use If-Else Statements

Code:-

#include <stdio.h>

```
int main() {
printf("\nparkash \nEE-A2 2016065\n\n");
int a=6,b=6;
printf("Value of a is %d\n",a);
printf("Value of b is %d\n",b);
if(a>=b)
{printf("a is either greater or equal to b\n\n");}
else
{printf("b is either greater or equal to a\n\n");}
printf("End of If-Else.\n\n");
return 0;
}
```

```
1 #include <stdio.h>
2 * int main(){
3     printf("Nparkash \nEE-A2 2016065\n\n");
4     int a=6,b=6;
5     printf("Value of a is %d\n",a);
6     printf("Value of b is %d\n",b);
7     if(a»-b)
8     {printf("a is either greater or equal to b\n\n");}
9     else
10     {printf("b is either greater or equal to a\n\n");}
11     printf("Ed of If-Else.\n\n");
12     return 0;

13 }

**Console: connection closed

**

**Description:

**Description:
```

Practical-11

Aim-To make a Fibonacci series

Code:-

```
#include<stdio.h>
int main()
{ int i,lt,nxt,t1=0,t2=1;
  printf("Shivam Gupta 2016065\n\n");
  printf("To make a fibonacci series\n\n");
  printf("Enter the number of terms:-",lt);
  scanf("%d",&lt);
  printf("Fibonacci series is\n");
  for(i=1;i<=lt;i++)
  {
    printf("%d\n",t1);
  nxt=t1+t2;
  t1=t2;
  t2=nxt;
  }
  return 0;
}
```

Program to perform increment and decrement operators

```
//program to show functioning of increment decrement operators
#include<stdio.h>
int main()
{
int x,p=++x,y,q=--y;
printf("EEA2,Roll no.=2016065, Program to use increment and decrement operators \n\n");
printf("Enter the number whose value is to be incremented : ");
scanf("%d",&x);
p=++x;
printf("After incrementing by 1 = %d\n",p);
printf("Enter the number whose value is to be decremented : ");
scanf("%d",&y);
q=--y;
printf("After decrementing by 1 = %d\n",q);
return 0;
}
Output:
```

```
int main()

int main()

int x,p=+x,y,q=--y;

printf("EEA2,Roll no.-2016065, Program to use increment and decrement operators printf("EACA2,Roll no.-2016065, Program to use incremented: ");

scanf("%d',%x);

printf("After incrementing by 1 = %d\n",p);

printf("Enter the number whose value is to be decremented: ");

scanf("%d',%y);

q=--y;

printf("After decrementing by 1 = %d\n",q);

return 0;

int main()

Lead of the consoler connection closed (Running: 34 seg)

EAA,Roll no.-2016065, Program to use increment and decrement operators into the connection closed (Running: 34 seg)

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EAA,Roll no.-2016065, Program to use increment operators into the connec
```

Program to perform conditional statements, if and else, if-else ladder

```
//Program to perform conditional statements if and else, if-else ladder
    #include <stdio.h>
int main()
{
    int k,l,m;

    printf("EEA2,Roll no.=2016065, Program to perform conditional statements if and else, if-else ladder \n\n");
    printf("Enter the 1st number : ");
    scanf("%d",&k);
    printf("Enter the 2nd number : ");
    scanf("%d",&1);
    printf("Enter the 3rd number : ");
```

```
scanf("%d",&m);
printf("1st number = %d\n",k);
printf("2nd number = %d\n",1);
printf("3rd number = %d\n",m);
if(k>1 && k>m && l>m)
{
  printf("the ascending order is given by :");
  printf("%d<%d<%d\n",m,l,k);
}
else if(k<l && k>m && l>m)
  printf("the ascending order is given by :");
  printf("%d<%d<%d\n",m,k,l);
}
else if(k>m && m>l && k>l)
  printf("the ascending order is given by :");
  printf("%d<%d<%d\n",l,m,k);
}
else if(m>k && m>l && k>l)
  printf("the ascending order is given by :");
  printf("%d<%d<%d\n",l,k,m);
else if (1>m && m>k && 1>k)
{
```

```
printf("the ascending order is given by :");
printf("%d<%d<%d\n",k,m,l);
}
else if(m>k && m>l && l>k)
{
    printf("the ascending order is given by :");
    printf("%d<%d<%d\n",k,l,m);
}</pre>
```

printf("This was just a demonstration, program can be modified using more logical and relational operators!!\n");

return 0; }

Output:

```
### Minimal Control of Control of
```

Practical:-14

Aim: To find factorial of a given number

Code:

```
#include<stdio.h>
int main()
{    int i,num,fact=1;
    printf("Shivam Gupta 2016065\n\n");
    printf("To find the factorial of a number\n\n");

    printf("Enter the number:-");
    scanf("%d",&num);
    for(i=1;i<=num;i++)
    {
        fact=fact*i;
    }

    printf("Factorial of above number is %d",fact);
    return 0;
}</pre>
```