ASSIGNMENT

Q1. Write a program to print the values of A and B.

```c
#include <stdio.h>
int main()
{int a,b;
a=2,b=3;
printf("%d and %d\n",a,b);
return 0;
}
```

```
kiit@kiit-VirtualBox:~$ gcc program1.c
kiit@kiit-VirtualBox:~$ ./a.out
2 and 3
kiit@kiit-VirtualBox:~$
```

Q2. Write a program to print the sum of two numbers.

```c
#include <stdio.h>
int main()
{int a,b,c;
a=2,b=3,c=a+b;
printf("sum=%d\n",c);
return 0;
}
```

```
kiit@kiit-VirtualBox:~$ gcc program2.c
kiit@kiit-VirtualBox:~$ ./a.out
sum=5
kiit@kiit-VirtualBox:~$
```

Q3. Write a program to print the value of 3x^2+4y+5.

```c
#include <stdio.h>
int main()
{int a,b,c;
a=1,b=2,c=3*a*a+4*b+5;
printf("equation=%d\n",c);
return 0;
}
```

```
kiit@kiit-VirtualBox:~$ gcc program3.c
kiit@kiit-VirtualBox:~$ ./a.out
equation=16
```

Q4. Write a program to print ASCII values of the letters A-Z.

```c
#include <stdio.h>
int main()
{char a='A',b='B',c='C',d='D',e='E',f='F',g='G',h='H',
i='I',j='J',k='K',l='L',m='M',n='N',o='O',p='P',q='Q',
r='R',s='S',t='T',u='U',v='V',w='W',x='X',y='Y',z='Z';
printf("%c=%d\n",a,a);
printf("%c=%d\n",b,b);
printf("%c=%d\n",c,c);
printf("%c=%d\n",d,d);
printf("%c=%d\n",e,e);
printf("%c=%d\n",f,f);
printf("%c=%d\n",g,g);
printf("%c=%d\n",h,h);
printf("%c=%d\n",i,i);
printf("%c=%d\n",j,j);
printf("%c=%d\n",k,k);
printf("%c=%d\n",l,l);
printf("%c=%d\n",m,m);
printf("%c=%d\n",n,n);
printf("%c=%d\n",o,o);
printf("%c=%d\n",p,p);
printf("%c=%d\n",q,q);
printf("%c=%d\n",r,r);
printf("%c=%d\n",s,s);
printf("%c=%d\n",t,t);
printf("%c=%d\n",u,u);
printf("%c=%d\n",v,v);
printf("%c=%d\n",w,w);
printf("%c=%d\n",x,x);
printf("%c=%d\n",y,y);
printf("%c=%d\n",z,z);
return 0;
}
```

```
kiit@kiit-VirtualBox:~$ gedit program4.c
kiit@kiit-VirtualBox:~$ gcc program4.c
kiit@kiit-VirtualBox:~$ ./a.out
A=65
B=66
C=67
D=68
E=69
F=70
G=71
H=72
I=73
J=74
K=75
L=76
M=77
N=78
O=79
P=80
Q=81
R=82
S=83
T=84
U=85
V=86
W=87
X=88
Y=89
Z=90
kiit@kiit-VirtualBox:~$
```

Q5. Write a program to print the ASCII characters from 65 to 75.

```c
#include <stdio.h>
int main()
{char
a='A',b='B',c='C',d='D',e='E',f='F',g='G',h='H',i='I',j='J',k='K';
printf("%d=%c\n",a,a);
printf("%d=%c\n",b,b);
printf("%d=%c\n",c,c);
printf("%d=%c\n",d,d);
printf("%d=%c\n",e,e);
printf("%d=%c\n",f,f);
printf("%d=%c\n",g,g);
printf("%d=%c\n",h,h);
printf("%d=%c\n",i,i);
printf("%d=%c\n",j,j);
printf("%d=%c\n",k,k);
return 0;
}
```

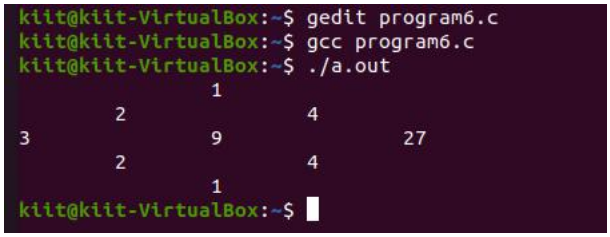
```
kiit@kiit-VirtualBox:~$ gedit program5.c
kiit@kiit-VirtualBox:~$ gcc program5.c
kiit@kiit-VirtualBox:~$ ./a.out
65=A
66=B
67=C
68=D
69=E
70=F
71=G
72=H
73=I
74=J
75=K
```

Q6. Display the output in the format:

```
            X
     Y                y^2
Z           Z^2           Z^3
     Y                Y^2
            X
```

Open | program6.c | Save

```c
#include <stdio.h>
int main()
{int x=1,y=2,z=3;
printf("\t\t%d",x);
printf("\n\t%d",y);
printf("\t\t%d",y*y);
printf("\n%d",z);
printf("\t\t%d",z*z);
printf("\t\t%d",z*z*z);
printf("\n\t%d",y);
printf("\t\t%d",y*y);
printf("\n\t\t%d\n",x);
return 0;
}
```


kiit@kiit-VirtualBox:~$ gedit program6.c
kiit@kiit-VirtualBox:~$ gcc program6.c
kiit@kiit-VirtualBox:~$ ./a.out
1
2 4
3 9 27
2 4
1
kiit@kiit-VirtualBox:~$