PRACTICAL 05

01.

```
#include <stdio.h>

 int main()
{
    int i;
    for (i=1; i<=100; i++){
       printf("%d ",i);
    }

 return 0;
 }
```

02.

```
#include <stdio.h>
int main(void){
int n;
printf("Enter your mark ");
scanf("%d",&n);
printf(" You entered %d", n); // printing outputs

            if(n >= 80){
            printf(" You got A grade"); // printing outputs
                        }
            else if ( n >=60){ // Note the space between else & if
                        printf(" You got B grade");
                        }
```

```
        else if ( n >=40){
                printf(" You got C grade");
                }
        else if ( n < 40){
                printf(" You Failed in this exam");
                }
return 0;
}
```

03.

```
#include <stdio.h>
int main(){
  int i,f=1,n;

  printf("Input the number : ");
  scanf("%d",&n);

  for(i=1;i<=n;i++)
     f=f*i;

  printf("The Factorial of %d is: %d\n",n,f);
return 0;
}
```

04.

```
#include <stdio.h>

int main()
{
  int n, t, sum = 0, remainder;

  printf("Enter an integer\n");
  scanf("%d", &n);

  t = n;

  while (t != 0)
  {
    remainder = t % 10;
    sum       = sum + remainder;
    t         = t / 10;
  }

  printf("Sum of digits of %d = %d\n", n, sum);

  return 0;
}
```

05.

```
#include <stdio.h>

int main() {

 int n, reverse = 0, remainder;

 printf("Enter an integer: ");

 scanf("%d", &n);

 while (n != 0) {

  remainder = n % 10;

  reverse = reverse * 10 + remainder;

  n /= 10;

 }

 printf("Reversed number = %d", reverse);

return 0;

}
```

06.

```
#include <stdio.h>
int main() {
   int base, exp;
   long double result = 1.0;
   printf("Enter a base number: ");
   scanf("%d", &base);
   printf("Enter an exponent: ");
   scanf("%d", &exp);

   while (exp != 0) {
      result *= base;
      --exp;
   }
   printf("Answer = %.0Lf", result);
   return 0;
}
```

07.