```
A 1 - int number =56322;
  int count=0;
  int temp;
  for (temp=number; temp!=0; temp/=10) {
  count++; }
  printf("Count numbers %d",count);
A 2 - int number=563;
  int sum=0;
  int temp;
  for (temp=number; temp!=0; temp/=10) {
  sum+= temp%10; }
  printf("sum of digits %d",sum);
A 3 - int i=1;
  for (i=1;i<=10;i++) {
  printf("%d\n",i); }
A 4 - int i=1;
  for (i=1;i<=100;i++) {
  printf("%d\n",i); }
A 5 - int i=1;
  for (i=50;i\leq 1000;i++) {
  printf("%d\n",i); }
A 6 - int i=1;
  for (i=34;i<=89;i++) {
  printf("%d\n",i); }
A 7 - int i=5;
  for (i=5;i>=1;i--) {
  printf("%d\n",i); }
```

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A 8 - int i=10;
  for (i=10;i>=1;i--) {
  printf("%d\n",i); }
A 9 - int i=100;
  for (i=100;i>=1;i--) {
  printf("%d\n",i); }
A 10 - int i=50;
  for (i=50;i>=1;i--) {
  printf("%d\n",i); }
A 11 - int i=78;
  for (i=78;i>=45;i--) {
  printf("%d\n",i); }
A 12 - int number=1;
  int sum=0;
  for (number=1; number<=10; number++) {
  sum=sum+number; }
  printf("sum %d",sum);
A 13 - int number=45;
  int sum=0;
  for (number=45; number<=89; number++) {
  sum=sum+number; }
  printf("sum %d",sum);
A 14 - int i=1;
  for (i=1;i<=10;i++) {
  if (i%2==0) {
  printf("even number %d\n",i); }
  else {
  printf(""); }
```

```
}
A 15 - int i=1;
  for (i=1;i<=100;i++) {
  if (i%2==0) {
  printf("even number %d\n",i); }
  else {
  printf(""); }
  }
A 16 - int i=50;
  for (i=50;i<=100;i++) {
  if (i%2==0) {
  printf("even number %d\n",i); }
  else {
  printf(""); }
  }
A 17 - int i=67;
  for (i=67;i<=89;i++) {
  if (i%2==0) {
  printf("even number %d\n",i); }
  else {
  printf(""); }
  }
A 18 - int i=89;
  for (i=89;i>=67;i--) {
  if (i%2==0) {
  printf("even number %d\n",i); }
  else {
  printf(""); }
  }
A 19 - int i=100;
  for (i=100;i>=1;i--) {
  if (i%2==0) {
  printf("even number %d\n",i); }
```

```
else {
  printf(""); }
  }
A 20 - int i=1;
  int sum=0;
  for (i=1; i<=100; i++) {
  if (i%2==0) {
  sum=sum+i; }
  }
  printf("%d",sum);
A 21 - int i=1;
  int sum=0;
  for (i=1; i<=100; i++) {
  if (i%2==0) {
  printf("%d\n",i);
  sum=sum+i; }
  }
  printf("%d",sum);
A 22 - int i=100;
  int sum=0;
  for (i=100; i>=1; i--) {
  if (i%2!=0) {
  printf("%d\n",i);
  sum=sum+i; }
  printf("%d",sum);
A 23 - int i=1;
```

```
int a,b;
  printf("starting point");
  scanf("%d",&a);
  printf("ending point");
  scanf("%d",&b);
  printf("even numbers from %d to %d\n",a,b);
  for (i=a; i<=b; i++) {
  if (i%2==0) {
  printf("%d\n",i); } }
A 24 - char a;
 int i=1;
 printf("enter a character = ");
 scanf("%c",&a);
  if (a=='a') {
  for (i=1; i<=10; i++) {
 printf("%d\n",i); } }
else {
 printf("character should be a"); }
A 25 - char a;
 int i=45;
 printf("enter a character = ");
 scanf("%c",&a);
  if (a=='b') {
  for (i=45; i>=3; i--) {
 printf("%d\n",i); } }
else {
 printf("character should be b"); }
```

```
A 26 - char a,b;
 int start, end;
 int i=1;
 printf("enter a character ");
 scanf(" %c",&a);
 if (a=='p') {
 printf("enter e for even number o for odd number ");
 scanf(" %c",&b);
 printf("enter the starting point ");
 scanf("%d",&start);
 printf("enter the ending point ");
 scanf("%d",&end);
 if (b=='e'){
 printf("even numbers from %d to %d are =\n", start,end);
 for (int i=start; i<=end; i++) {
 if (i%2==0) {
 printf("%d\n",i); }}}
 else if (b=='o'){
    printf("odd from %d to %d are in backwards order =\n ", start,end);
    for (int i=end; i>=start; i--) {
    if (i%2!=0) {
    printf("%d\n",i); }}}
  else {
  printf("invalid type enter e or o for odd or even number"); }}
  else {
    printf("invalid type enter p"); }
A 27 - char a, b;
 int start, end;
 int sum = 0;
 int i = 1;
```

```
printf("enter the character = ");
scanf("%c", &a);
if (a == 's') {
  printf("n for sum of numbers, e for sum of even numbers, o for sum of odd numbers");
  scanf(" %c", &b);
  printf("starting point = ");
  scanf("%d", &start);
  printf("ending point = ");
  scanf("%d", &end);
  if (b == 'n') {
     printf("%d to %d sum of these numbers\n", start, end);
     for (i = start; i <= end; i++) {
        sum += i;
        printf("%d\n", sum);
     }
  } else if (b == 'e') {
     printf("%d to %d sum of these numbers of even numbers\n", start,
     end); for (i = start; i \le end; i++) {
        if (i \% 2 == 0) {
          printf("%d\n", i);
          sum += i;
        }
     printf("Sum of even numbers: %d\n", sum);
  } else if (b == 'o') {
     printf("%d to %d sum of these numbers of odd numbers\n", start, end);
     for (i = start; i <= end; i++) {
        if (i % 2 != 0) {
          printf("%d\n", i);
          sum += i;
       }
     }
     printf("Sum of odd numbers: %d\n", sum);
  } else {
     printf("Character should be n, e, or o\n");
} else {
  printf("Character should be 's'\n");
```

```
}
A 28 - int number=3;
  int limit=10;
for (int i=1; i<=limit; i++) {
printf("%d*%d=%d\n",number,i,number*i); }
A 29 - int number = 5; // Example number
 int factorial = 1;
 for (int i = 1; i \le number; i++) {
    factorial *= i;
 }
 printf("Factorial of %d is %d.\n", number, factorial);
A 30 - int n=10,first=0,second=2,next;
  printf("fibonacci series %d",n);
  for (int i = 0; i <= n; i++) {
  if (i<=1) {
  next = i;
  else {
  next=first + second;
  first = second;
  second = next; }
  printf("%d",next);
  }
```