

(Q.01 to Q.05 each carry 6 marks. and Q.06 to Q.012 each carry 10 marks)

Q.01 Write a program to check number is positive or negative.

Q.02 Write a program to find largest number of two numbers.

Q.03 Write a program to check number is even or odd.

Q.04 Write a program for swapping number without using third variable.

Find out the Output of the following programs.

Q.05

```
void main(){
printf("jaish\ree\ram");
printf("Softwaves\bhopal");
printf("jaish/ree/ram");
}
```

Q.06

```
void main(){
int a = 5;
int b = 11;
a = a++ + a++ + a++;
printf("%d\n",a);
a = ++a + a++ + ++a;
printf("%d\n",a);
b = b++ + ++b + a++;
printf("%d\n",b);
}
```

Q.07

```
void main(){
int x = 18;
int y = 22;
printf("%i\n",x&y);
printf("%i\n",x|y);
printf("%i\n",x^y);
printf("%i\n",x<<3);
printf("%i\n",y>>3);
printf("%i\n",~x);
printf("%i\n",~y);
}
```

Q.08

```
void main(){
int x = 15;
int y = 6;
int z;
z = y++ + x++;
printf("%d\n",z);
z = ++x + y++;
printf("%d\n",z);
z = y++ + ++x;
printf("%d\n",z);
}
```

Q.09

```
void main(){
int a = 65;
printf("%d\n",a);
printf("%i\n",a);
printf("%o\n",a);
printf("%x\n",a);
}
```

Q.10

```
void main(){
int a = 065;
printf("%d\n",a);
printf("%i\n",a);
printf("%o\n",a);
printf("%x\n",a);
}
```

Q.11

```
void main(){
int a = 0x65;
printf("%d\n",a);
printf("%i\n",a);
printf("%o\n",a);
printf("%x\n",a);
}
```

Q.12

```
void main(){
int a = 0xca;
printf("%d\n",a);
printf("%i\n",a);
printf("%o\n",a);
printf("%x\n",a);
}
```

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All the questions are Mandatory

- Q.01 write a program to check whether a number is even or odd 5
 Q.02 write a program to check whether a number is positive or negative 5
 Q.03 Write a program to Check two numbers are equal or not with using arithmetic operator. 5
 Q.04 Write a program to Check two numbers are equal or not without using arithmetic and comparison operators 10
 Q.05 write a program to find largest number among three numbers 10
 Q.06 write a program to find greatest of three numbers without using if statement 10
 Q.07 Write a program to find Grades of a Student using else if ladder. 20
 Q.08 C program to find Grades of a Student using if ladder.

- I. if marks < 50 then Grade is F
 II. if marks >= 50 < 60 then Grade is D
 III. if marks >= 60 < 70 then Grade is C
 IV. if marks >= 70 < 80 then Grade is B
 V. if marks >= 80 < 90 then Grade is A
 VI. if marks >= 90 then Grade is A+

Q.09

- A.

```
void main()
{
    int i=5;
    while(i<=15)
    {
        printf("%d\n",i++);
        printf("%d\n",++i);
    }
}
```
- B.

```
void main()
{
    int i=5;
    while(i<=12)
    {
        printf("%d\n",i++);
        printf("%d\n",--i);
        ++i;
    }
}
```
- C.

```
void main()
{
    int i;
    int s=0;
    for(i=3;i<=10;i++)
    {
        s=s+i;
        i++;
    }
    printf("s=%d\n",s);
}
```
- D.

```
void main()
{
    int i;
    for(i=3;i<=10;i++)
    {
        i=i*i;
    }
    printf("i=%d\n",i);
}
```
- E.

```
#include<stdio.h>
void main()
{
    int i;
    for(i=3;i<=13;i++)
    {
        printf("%o\n",i);
    }
}
```

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05

- | |
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Write the Ans of the following Question.

- 1 Write a Program to check whether the number is palindrome or not. 10
- 2 Write a Program to check whether the number is perfect or not. 10
- 3 Write a Program to check whether the number is prime or not. 10
- 4 Write a Program to print Fibonacci series. 10
- 5 What is user-defined function and their types explain with example. 20

Write a program for the following output. (Each Question 10 Marks)

6

```

      *
     **
    ***
   ****
  *****
 *****
*****
*****
*****

```

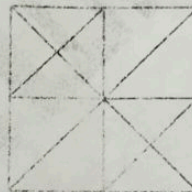
7

```

6
16
126
1236
12346
123456

```

8

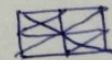


9

```

*****
*       *
*     *
*   *
* *
*

```



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| 1 | | Loops | | | |
|---------|------------|------------|---------|---------|-------|
| 12345 | 12345 | 12345 | 12345 | 1 | 21 |
| 12345 | 1234 | 2345 | 123 | 123 | 321 |
| 12345 | 123 | 345 | 1234 | 4321 | 4321 |
| 12345 | 12 | 45 | 12345 | 54321 | |
| 12345 | 1 | 5 | 5 | 6 | |
| 54321 | 54321 | 54 | 45 | 16 | |
| 54321 | 5432 | 54 | 345 | 126 | |
| 54321 | 543 | 5432 | 2345 | 1236 | |
| 54321 | 54 | 54321 | 12345 | 12346 | |
| 54321 | 5 | 54321 | 12345 | 123456 | |
| 23456 | ***** | * | ***** | 1***** | |
| 34567 | ***** | ** | ***** | 12*** | |
| 45678 | ***** | *** | ***** | 123** | |
| 56789 | ***** | **** | ***** | 1234* | |
| 678910 | ***** | ***** | * | 12345 | |
| 12345 | 12345 | 1 | 1 | 1010101 | |
| ***** | 22345 | 10 | 01 | 101010 | |
| 12345 | 33345 | 101 | 101 | 10101 | |
| ***** | 44445 | 1010 | 0101 | 101 | |
| 12345 | 55555 | 10101 | 10101 | 10 | |
| | | 101010 | 010101 | 1 | |
| | | 1010101 | 1010101 | 1 | |
| 1010101 | 11111 | 1 | 5 | 1 | 25 |
| 010101 | 22222 | 22 | 44 | 456 | |
| 10101 | 33333 | 333 | 333 | 78910 | |
| 0101 | 44444 | 4444 | 2222 | | |
| 101 | 55555 | 55555 | 11111 | | |
| 01 | | | | | |
| 1 | | | | | |
| 0 | 1 | 4 | 0 | 0 | 12 |
| 11 | 23 | 68 | 12 | 012 | |
| 235 | 5711 | 91012 | 340 | 0120 | |
| 8132134 | 13171923 | 14151618 | 1234 | | |
| | 2931374143 | 2021222425 | | | |
| ***** | ***** | 12345 | 02345 | 1*3*5 | |
| ***** | ***** | AAAAA | 10345 | *2*4* | |
| ***** | ***** | 12345 | 12045 | 1*3*5 | |
| ***** | ***** | AAAAA | 12305 | *2*4* | |
| ***** | ***** | 12345 | 12340 | 1*3*5 | |
| ***** | ***** | | | | |
| 12345 | ***** | | | | 1 |
| 54321 | *** | 12345 | 11111 | | 12 |
| 12345 | *234* | 12345 | 12345 | | 123 |
| 12345 | *234* | 3691215 | 33333 | | 1234 |
| 54321 | *234* | 246810 | 12345 | | |
| 12345 | *** | 510152025 | 55555 | | 12345 |

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