

ASSIGNMENT 1

Q.1]

```
#include<stdio.h>

int main()
{
    int number;
    char *answer;
    printf("Enter a number: ");
    scanf("%d", &number);

    // condition ? value_if_true : value_if_false

    answer = (number % 2 == 0) ? "even" : "odd";

    printf("It is an %s number\n", answer);
    return 0;
}
```

Q.2]

The Output of the code is:

4

1

2

3

1

Q.3]

```
// Write a program to calculate sum of the following  
// 1+1/2!+1/3! ... 1/n!
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int i, j, num, fact = 1;
```

```
    double answer = 0;
```

```
    printf("n = ");
```

```
    scanf("%d", &num);
```

```
    for(i = 1; i <= num; i++)
    {
        fact = 1;
        for(j = i; j > 0; j--)
        {
            fact = fact * j;
        }
        answer = answer + (1.0 / fact);
    }

    printf("The answer of the series is equal to %f\n",
answer);
    return 0;
}
```

Q.4]

```
int main()
{
    int i, j, rows = 3, space, x;

    for (i = rows; i >= 0; i--)
    {
        for(j = 0; j <= i; j++)
        {
            printf("%c", j + 65);
        }
        printf("\n");
    }
}
```
