Practical 02

Question no:01

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


int main()
{
    int age;
    printf("HI,HOW OLD ARE YOU?");
    scanf("%d",&age);
    printf("\n\n");
    printf("WELCOME \(%d)\n",age);
    printf("LET'S BE FRIEND!");
     return 0;
}
```

Question no:02

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


int main()
{
    printf("%5d%5d%5d\n",2,4,8);
    printf("%5d%5d%5d\n",3,9,27);
    printf("%5d%5d%5d\n",4,16,64);
```

```c
    printf("%5d%5d%5d\n",5,25,125);

    return 0;

}
```

Question no:03

```c
#include <stdio.h>

#include <stdlib.h>


int main()

{

    float distance,average;

    int time;

    printf("Enter the distance travelled ");

    scanf("%f",&distance);

    printf("Enter the time taken");

    scanf("%d",&time);

    average=distance/time;

    printf("The average speed is %.2fm/s",average);


    return 0;

}
```

As most of the time average values contain decimals ,int variable type is not suitable. Float variable type is more suitable for average values.

Question no:04

```c
#include <stdio.h>

#include <stdlib.h>


int main()

{

    float fahren,celcius;

    printf("Enter the temperature reading in degrees Fahrenheit ");

    scanf("%f",&fahren);

    celcius=(5.0/9.0)*(fahren-32.0);

    printf("The Celcius value is %.2f",celcius);

    return 0;

}
```

Testing results

68

Enter the temperature reading in degrees Fahrenheit 68

The Celcius value is 20.00

Process returned 0 (0x0)   execution time : 5.016 s

Press any key to continue.

150

Enter the temperature reading in degrees Fahrenheit 150

The Celcius value is 65.56

Process returned 0 (0x0)   execution time : 4.781 s

Press any key to continue.

212

Enter the temperature reading in degrees Fahrenheit 212

The Celcius value is 100.00

Process returned 0 (0x0)   execution time : 2.828 s

Press any key to continue.

0

Enter the temperature reading in degrees Fahrenheit 0

The Celcius value is -17.78

Process returned 0 (0x0)   execution time : 3.562 s

Press any key to continue.

-22

Enter the temperature reading in degrees Fahrenheit -22

The Celcius value is -30.00

Process returned 0 (0x0)   execution time : 4.063 s

Press any key to continue.

-200

Enter the temperature reading in degrees Fahrenheit -200

The Celcius value is -128.89

Process returned 0 (0x0)   execution time : 4.547 s

Press any key to continue.