Q1: What is the biggest achievement in your life in the last one year ? (answer in your own words, between 100 - 500 words)

Ans: Last one year, i.e.2016 was the most promising and life changing year in my life. I have achieved lots of things to be proud of in previous year. Following are my best ones:

1. After graduation, in past winter, My Coaching class Trainer asked me to help him in training next junior batch. I helped him setting aptitude Question Papers and checking it as well. Once, he was going to lose his trainer due to relocation. So he asked me to give a lecture on Technical Aptitude topic. Stammering has been my weakness since childhood, I was refusing it as I was worried whether students would understand or not. But then I told myself, 'let’s experience something new!’ and I took lectures for three consecutive days and got positive response from students. That was a great feeling.
2. After that, in the first week of February, 2017 I relocated to Pune for job search. I got a job immediately in first company I applied over online job portal. The first 3 months was probation period, but my performance made them to move me to development room after 1 month itself. It was a startup company so I got chance to work on every profile. I was supposing myself as a Full Stack Developer, although my profile was PHP trainee. Once our project manager (PM) asked me to complete a project allotted to him. For a while I felt happy when I realized that PM wants me to work on his project in disguise. He greeted me when I completed the website in just 18 hours. I learned so many things there.
3. My educational life, from Schooling to Engineering, was done in my hometown itself. So I never experienced hostel life. But from this year I started living independently. And now even I can make tasty Curry-rice.

Still I feel there is more to come.

Q2: Why do you think Hummingbird will be a good fit for your career? (answer in your own words, between 100 - 500 words)

Ans: Whenever I get a call from any company for job offer I first visit their website. Because I think if Resume/CV is to employee then Website is to Company. Website shows what type of people the company possesses, its work environment and level of encouragement. I liked Hummingbird Web Solution’s website very much. As a creative person, I realized that I should take a chance in your company. I also share your commitment to build softwares and plugins and make developers as well as people’s work easy. I liked your perspective with respect to your employees. I respect your quote “Today’s junior is tomorrow’s senior partner!”, and as a fresher this quote sounds encouraging for me. Since I have realized that my career and area of interest lies in Web Application Development, Web Designing and Development, I have been searching for a company whose perspective is to make the employees work in ease and encourage free-thinking and Hummingbird is one of them. And I am happy to get a second chance from your company to prove myself.

Also I have a work experience of 3 months as a PHP trainee developer where I used to work on additional profiles from making Web banners and logo to implementing some Digital Marketing modifications, as well as working on Frontend and backend both. Still there is more to learn in today’s corporate world and this can be gained by working in your company. I just want my skills and passion to be utilized properly. Lastly I would say ‘Strike while the iron is hot’.

Q3: Other details about you:

\* Current salary (if working): ----

\* Your total years of software experience: **3 months**

\* Expected salary: **min. 15,000 p.m.**

\* Expected start date (if selected): **Immediate**

\* Contact number: **8446524095**

\* Current Location: **Pune**

\* Are you willing to relocate to Pune for this Job: **Absolutely, Yes.**

\* If you have applied to us before, please let us know the date and details when you have applied**: Yes, I have applied in your company before. I was interviewed on 29th May, 2017. Though I didn’t get the job, I was impressed by your recruitment process HR team. They were kind and helpful.**

Q4: Write code to complete the below PHP function, the comments describe how the function should work and also describes the input and output parameters:

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\* Function Name - Reverse a string

\* Input is a string sent a parameter in the function call

\* This function reverses the input string and returns the reversed string as the return value

\* The php string functions are not used here, the string reversal is done using arrays and loops

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**function Custom\_STR\_Reverse ( $str ) {**

**$revstr="";**

**$i=0;**

**while(!empty($str[$i]))**

**{**

**$i++;**

**}**

**$str\_len = $i;**

**for ($j=$str\_len; $j>0; $j--){**

**$revstr.=$str[$j-1];**

**}**

**return $revstr;**

**}**

Q5: Write code to complete the below PHP function, the comments describe how the function should work and also describes the input and output parameters:

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\* Function Name - Encode a string

\* Input is a string sent as a parameter in the function call

\* This function returns another string that is encoded as per the rule defined below

\* RULE FOR ENCODING: replace each character of the string with the corresponding character as below:

\* a = 1 ; b= 2 ; c = 3 ; ......... ; x = 24 ; y= 25 ; z = 26

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**function CustomEncode ($inputstring ) {**

**$outputstring ="";**

**for($i=0;$i<strlen($inputstring);$i++){**

**$outputstring.=(ord($inputstring [$i])-96)."|"; //ord() gives ASCII value of character;**

**}**

**return $outputstring;**

**}**

Q6 : Write code to complete the below PHP function, the comments describe how the function should work and also describes the input and output parameters:

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\* Function Name: IP Address Ban

\* Write a function to detect if an IPAddress is banned, if found banned, return "Banned IP", else return "Good IP"

\* Use an array called $bannedList as an array with list of banned IPs. You can populate this array with 6 random IP addresses

\*

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**function checkIPBan ($InputIP) {**

**$status="";**

**$bannedList = array("11.11.11.11", "22.22.22.22", "33.33.33.33","44.44.44.44","45.44.45.44","255.255.10.10");**

**if (in\_array ($InputIP, $ bannedList)) {**

**$status= "Banned IP";**

**else {**

**$status= "Good IP";**

**}**

**return $status;**

**}**

Q7: Write code to complete the below PHP function, the comments describe how the function should work and also describes the input and output parameters:

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\* Function Name: Validate User

\* Check if the user is a valid user. Input values are the username and password.

\* Return Boolean true if the password is correct, else return false if the password does not match

\* Assume the user table structure is as follows: TableName: "UserData" with Fields : "Username" and "Password". The Password field is the MD5 hash of the password of the user.

\*

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**function isUserValid ($User, $Password) {**

**$match=” User invalid”; //assuming connection is done and $conn is connection object**

**$result = mysqli\_query($conn,"SELECT \* FROM UserData WHERE Username =”.$User.” AND Password =”.md5($Password).”");**

**while($result)**

**{**

**$match= "User is valid"**

**} return $match;**

**}**