|  |  |
| --- | --- |
| Input | Expected Output |
| Abc | Axbxxcxxx |
| HUMAN | HxUxxMxxxAxxxxNxxxxx |
| R | Rx |
| MNOP | MxNxxOxxxPxxxx |
| DDDDD | DxDxxDxxxDxxxxDxxxxx |
| X | Xx |
| 12345 | 1x2xx3xxx4xxxx5xxxxx |

Task1

Task2

|  |  |
| --- | --- |
| 82,70,66,84 | Maths : 82 :A  English : 70 :B  Computers : 66 : B  Science : 84 : A  Highest marks : Science |
| 55,58,71,62 | Maths : 55 : C  English : 58 : C  Computers : 71 : B  Science : 62 : B  Highest marks : Computers |
| 37,33,32,36 | Maths : 37 : D  English : 33 : D  Computers : 32 : D  Science : 36 : D  Highest marks : Maths |
| 71,85,53,39 | Maths : 71 : B  English : 85 : A  Computers : 53 : C  Science : 39 : D  Highest marks : English |
| 80,60,40,50 | Maths : 80 : A  English : 60 : B  Computers : 40 : C  Science : 50 : C  Highest marks : Maths |

Task3

|  |  |
| --- | --- |
| str1 = 456789456789456  str2 = 456780009899765 | 456789456789456 |
| str1 = 987654321987654321  str2 = 1234567890123456789 | 1234567890123456789 |
| str1 = 987654321987654321  str2 = 987654321987654321 | Equal |
| str1 = 1234  str2 = 1235 | 1235 |
| str1 = 22334455667788  str2 = 22334455777788 | Equal |
| str1 = 198765432198765  str2 = 2987654321987 | 198765432198765 |
| str1 = 99988877766655500  str2 = 99988877766655500 | Equal |
|  |  |

Task4

|  |  |
| --- | --- |
| hello@gmail.com | Proper |
| A1234@q.com | Proper |
| [231@8.com](mailto:231@8.com) | Proper |
| @wer.com | Not Proper |
| [asdf@.com](mailto:asdf@.com) | Not Proper |
| [M2@m3.xyz](mailto:M2@m3.xyz) | Not Proper |
| Hello.gmail.com | Not Proper |
| jack@email.com | Proper |
| jack@gmailcom | Not Proper |

Task5

|  |  |
| --- | --- |
| 5y+10=40 | Y=6 |
| 25y-30=1070 | Y=44 |
| 3y+7=1 | Y=-2 |
| 100y-101=2399 | Y=25 |
| 6y+20=20 | Y=0 |
| 7y-250=9 | Y=37 |
| 1234y+1000=2234 | Y=1 |
| 2y-3=1 | Y=2 |

Task 6

|  |  |
| --- | --- |
| Abc | 3 |
| heshethemthey | 6 |
| 12341234123411223344 | 4 |
| AAAAAAAAA | 1 |
| Abcdefgh | 8 |
| AAABBBABAB | 2 |
| X | 1 |
| A+b+c+d+e | 6 |